AID 757 - X

Elektrotekhnicheskiye materialy

Pages 214-233

Ch. 9 Conducting Materials
Copper: basic data, treatment, brass, data on wires.
Aluminum, basic data, Aldrey type.
Steel, characteristics, wire manufacture "bimetal", data.
Others: Tungsten: treatment, basic data; molybdenum, platinum and mercury, basic data.
High resistance alloys: constantan, basic data; manganin, nichrome, "Fechrale" and their basic data.
Carbon: brushes, carbon and graphite, "GOST" standards, basic data, table on p. 232.

233-248

Ch. 10 Insulated Cables
Wires for windings: basic data, types, tables on pp. 235, 236, 239.
Power cables: diagrams, basic data, "GOST" standards, research of S. M. Bragin mentioned; "vinyflex" and "metalvyn" developed by Andrianov and Ushakov; types of cables and wires: SK, SG, SA, SB, OSB and OSK listed, basic data given; a score of names of scientists developing research on wires and cables is attached.

248-259

Ch. 11 Magnetic Materials
General information: brief review of achievements.

AID 757 - X

Elektrotekhnicheskiye materialy

Pages

Laminated steel "GOST" standards, basic data, types, table on p. 254.

Various magnetic materials: permalloy, "alsifer" developed by A. S. Zaymovskiy, basic data; magneto-dielectrics, developed by A. S. Zaymovskiy, N. N. Shol'ts, L. I. Rabkin, V. S. Yevseyev for super high frequencies, basic data.

Materials for permanent magnets: alloy types, basic data, table on p. 258. 259-282

Ch. 12 Various Materials

Lead: basic data, types.

Soldering materials: soft and hard tin, types and table on p. 262, compounds with copper, silver, zinc, cadmium, phosphorus, aluminum, fusing agents: colophony, chlorine, fluorine, etc.; compounds with sodium, potassium, zinc and lithium.

Cement, putty, paste, glue: Portland cement types, according to "GOST" standards; gypsum, lead monoxide and glycerine (gletoglycerine); "ELSI" paste, composition; carbinol glue, composition, also used with nitrous acid,

Elektrotekhnicheskiye materialy

developed by I. P. Nazarov and based on synthetic rubber; glues BF-2 and BF-4 made of synthetic resin and alcohol.
Bimetals: general information, basic data, properties.
Materials for thermo-couples: "copel", "alumel" and "chromel", basic data.
Thermo color films (temperature recorders), containing mercury, silver, copper.
Storage battery electrolytes, basic data, "GOST" standards; alkali electrolytes, basic data, "GOST" standards, and process.
No. of References: 25 Russian, 1945-1952.
Facilities: Names of Russian scientists listed in Table of Contents.

TAREEV, B. M., ed.

AKADEMIIA nauk SSSR.

Scientific literature on dielectrics Moskva, Izd-vo Akademii nauk SSSR, 1952. 671 p.
(53-25640)

Z5834.D48A45

TAREYEV, B. M. May 52

USSR/Electricity - Personalities

"Professor N. P. Bogoroditskiy, in Connection With His 50th Birthday," P. I. Skotnikov, A. F. Alabshev, S. Ya. Sokolov, A. A. Vavilov, V. V. Pasynkov, B. M. Tareyev

"Elektrichestvo" No 5, p 88

Reviews main features of professional life of Nikolay Petrovich Bogoroditskiy, born 20 May 02 in Tashkent. His principal interest has been development of h-f dielectrics. Between 1933 and 1942 he developed the now widely-used radio materials tikond, micalex, h-f glass, radio porcelain, and ultra-porcelain. Affiliations include Military Elec Eng Acad imeni Budennyy (1933 - 1942) and a large plant laboratory (where he produced a number of inventions) during World War II. He has published a number of articles in journals, books, and textbooks. He received three Stalin Prizes: for an invention in field of ceramics(1942); for textbook "Electrical Engineering Materials"(1952); and for development and organization of mass production of parts for radio equipment (1952).

PA 240T58

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B. M.

USSR/Electricity - Education Jun 53

"Correspondence-School Advanced Training of Graduate Engineers," Prof B.M. Tareyev, Dr Tech Sci; Engr A.O. Magidson, All-Union Corresp Power Eng Inst (VZEI)

Elektrichestvo, No 6, pp 57-59

Describes organization of correspondence-school advanced training for graduate power engrs on basis of experience of VZEI in Moscow. Lists, discusses subject matter of projects recently completed for advanced training with VZEI by 8 persons from 8 different places (including Leninakan, Sochi, Taganrog). Submitted 22 Jan 53.

268T54

TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; GIKIS, A.F., dotsent, kandidat tekhnicheskikh nauk; MEZHLUMOV, A.A., dotsent, kandidat tekhnicheskikh nauk (Baku); STOLOV, L.I., dotsent, kandidat tekhnicheskikh nauk (Kazan'); YUMATOV, A.A., inzhener (Kronshtadt); RAKHIMOV, G.R., dotsent, kandidat tekhnicheskikh nauk; KONSTANTINOV, V.I., inzhener (Moscow); NEYMAN, L.R.; ZAYTSEV, I.A., dotsent, kandidat tekhnicheskikh nauk; LUR'YE, A.G., dotsent, kandidat tekhnicheskikh nauk.

Terminology of theoretical electrical engineering. Elektrichestvo no.2:74-82 F '54. (MLRA 7:2)

1. Vsesoyuznyy zaochnyy energeticheskiy institut (for Tareyev). 2. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta (for Gikis). 3. Sredneaziatskiy politekhnicheskiy institut (for Rakhimov). 4. Chlen-korrespondent Akademii nauk SSSR (for Neyman). 5. Leningradskiy politekhnicheskiy institut im. Kalinina (for Neyman, Zaytsev, Lur'ye). (Electric engineering--Terminology)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

VINTER, A.V., akademik; KUKUSHKIN, I.N., inzhener; TRAPEZNIKOV, V.A.; NIKOLAYEV, A.T., inzhener (Muromtsevo, Vladimirskoy obl.); KUDELIN, Ya.M. (Muromtsevo, Vladimirskoy obl.); PETROV, I.I., dotsent, kandidat tekhnicheskikh nauk (Moscow); BADALYANTS, M.G., inzhener; BELICHENKO, G.M., inzhener; KLAPCHUK, L.D., inzhener; FRANTSUZOV, Ye.M., inzhener; TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; MAGIDSON, A.O., inzhener.

Improving the knowledge of power engineers through correspondence courses. Remarks on B.M.Tareev's and A.O.Magidson's article. Elektrichestvo no.3:76-80 Mr '54. (MLRA 7:4)

1. Energeticheskiy institut im. Krzhizhanovskogo Akademii nauk SSSR (for Vinter). 2. Glavnyy energetik Gor'kovskogo avtomobil'nogo zavoda im. Molotova (for Kukushkin). 3. Institut avtomatiki i telemekhaniki Akademii nauk SSSR (for Trapeznikov). 4. Chlen-korrespondent Akademii nauk SSSR (for Trapeznikov). 5. Leninakanges (for Badalyants). 6. Dnepropetrovskiy institut inzhenerov transporta (for Belichenko). 7. Kurakhovskaya gres (for Klapchuk). 8. Orekhovo-Zuyevskaya tets (for Frantsuzov). 9. Vsesoyuznyy zaochnyy energeticheskiy institut (for Tareyev and Magidson).

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TARNYEV, B.M., professor, doktor tekhnicheskikh nauk.

In the scientific-technical society of the All-Union Institute for Correspondence Courses in Power Engineering. Elektrichestvo no.3:90 Mr '54. (MLRA 7:4)

1. Predsedatel' NTO Vsesoyuznogo zaochnogo energeticheskogo instituta.
(Power engineering--Study and teaching)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

DROZDOV, N.G., professor, doktor tekhnicheskikh nauk; PRIVEZENTSEV, V.A., professor, doktor tekhnicheskikh nauk; KOMAROV, N.S., dotsent, kandidat tekhnicheskikh nauk; NIKULIN, N.V., dotsent, kandidat tekhnicheskikh nauk; SHUMSKIY, I.I., dotsent, kandidat tekhnicheskikh nauk; KREMLEVSKIY, P.A., kandidat tekhnicheskikh nauk; GEPPE, A.P., inzhener; ALEKSANDROV, N.V., professor, doktor tekhnicheskikh nauk; TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; MYGENSON, L.S., professor, doktor tekhnicheskikh nauk; STEPANOV, V.S., dotsent, kandidat tekhnicheskikh nauk; MAGIDSON, A.O., inzhener.

"Science of electrical materials." M.M.Mikhailov. Reviewed by N.G. Drozdov, and others. Elektrichestvo no.3:93-94 Mr '54. (MLRA 7:4)

1. Moskovskiy energeticheskiy institut im. Molotova. 2. Vsesoyuznyy zaochnyy energeticheskiy institut.
(Electric insulators and insulation) (Electric conductors)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M.

AID P - 663

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 32/34

Author : Tareyev, B. M., Dr. of Tech. Sci., Prof., Chairman of the Scientific and Technical Society of the All-Union Power Engineering Correspondence Institute (VZEI)

Title : Scientific and Technical Society of the VZEI (Current News)

Periodical : Elektrichestvo, 9, 94, S 1954

Abstract : The 5th scientific and technical conference of the Institute was held in May 1954. 28 reports were discussed in the sections of the Institute.

Institution : VZEI (Scientific and Technical Society of the All-Union Power Engineering Correspondence Institute)

Submitted : No date

TAREYEV - B.M.

BABIKOV, M.A.; VENIKOV, V.A.; DROZDOV, N.G.; PRIVEZENTSEV, V.A.; SOLOV'YEV, I.I.; TAREYEV, B.M.; NIKULIN, N.V.

Professor S.M.Bragin. Elektrichestvo no.12:82-83 D '54. (MLRA 7:11)
(Bragin, Sergei Mikhailovich, 1894-)

TAREYEV, Boris Mikhaylovich, laureat Stalinskoy premii, d-r tekhnicheskikh nauk; YEZHKOV, V.V., redaktor; SKVORTSOV, I.M. tekhnicheskiy redaktor.

[Electric engineering materials] Elektrotekhnicheskie materialy. Izd.5-oe perer. Moskva, Gos.energ.izd-vo, 1955. 256 p.(MLRA 8:10)
(Electric engineering--Materials)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

BOGORODITSKIY, N.P., PASYNKOV, V.V.; TAREYEV, B.M.; REINE, V.T., redaktor
VORONETSKAYA, L.V., tekhnicheskiy redaktor.

[Materials used in electric engineering] Elektrotekhnicheskie materialy. Izd-vo 302, pere. Moskva, Gos. energ. izd-vo, 1955. 372 p. (MLRA 8:8)
(Electric engineering--Materials)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

JARMYEV, B.M., professor, redaktor; YEZHKOV, V.V., redaktor; BORONIN, K.P., tekhnicheskiy redaktor

[Fluorine organic compounds used as electric insulating materials. Translations] Ftororganicheskie elektroizolyatsionnye materialy. Perevody statei pod red. V.M.Tareeva. Moskva, Gos.energ. izd-vo, 1957. 62 p. (MLRA 10:9)
(Electric insulators and insulation)
(Fluorine organic compounds)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

GOLUBTSOVA, Valeriya Alekseyevna; TARNYKV, B.M., red.; MEDVEDEV, L.Ya., tekhn.red.

[History and prospects for the development of electric insulation materials] Istoriia i perspektivy razvitiia elektroizoliatsionnykh materialov. Moskva, Gos.energ.izd-vo, 1957. 76 p. 9 graphs (MIRA 11:2)

(Electric insulators and insulation)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., prof., red.; BORUNOV, N.I., tekhn.red.

[Recommendation for the classification of materials for the insulation of electrical machinery and apparatus in relation to their thermal stability in service] Rekomendatsii dlia klassifikatsii materialov izoliatsii elektricheskikh mashin i apparatov po nagrevostoikosti. Publikatsiia No.85. Izd.1, 1957 g. Moskva, Gos.energ.izd-vo, 1958. 12 p. (MIRA 12:7)

1. World Power Conference. U.S.S.R. National Committee. (Electric insulators and insulation)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

8(2) PHASE I BOOK EXPLOITATION SOV/1867

Tareyev, Boris Mikhaylovich, and David Mikhaylovich Kazarnovskiy

Ispytaniya elektroizolyatsionnykh materialov (Testing Electric Insulating Materials) Moscow, Gosenergoizdat, 1958. 208 p. 20,950 copies printed.

Ed.: V.I. Timokhina; Tech. Ed. G.I. Matveyev.

PURPOSE: This is a textbook for students in electrical engineering tekhnikums. It may be useful to students in power and electrical engineering vuzes and also for technicians in industrial plants and scientific-research institutes.

COVERAGE: The authors describe the most important and widespread methods of testing electric insulating materials. They explain the theoretical basis of the various methods and describe a number of testing instruments and auxiliary equipment. Special attention is devoted to new methods of testing with automatic measuring instruments and apparatus and methods for continuous testing without interrupting production or operating conditions. There are 70 references, 53 of which are Soviet, 10 English, 4 German, 2 Czech and 1 Italian.

Card 1/5

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

PHASE I BOOK EXPLOITATION 1079

Tareyev, Boris Mikhaylovich

Elektrotekhnicheskiye materialy (Electrical Materials) 6th ed., rev. Moscow, Gosenergoizdat, 1958. 271 p. 51,000 copies printed.

Ed.: Timokhina, V.I.; Tech. Ed.: Larionov, G.Ye.

PURPOSE: This book was approved as a textbook by the Scientific Council for Professional and Technical Education of the Main Administration of Labor Reserves under the USSR Council of Ministers, to be used in technical, trade, and railroad schools specializing in electrical engineering subjects. The book is also intended for technicians working in electric power systems, and plants and repair shops of the electrical and radio industries. It presumes a basic knowledge of physics, chemistry and electrical engineering.

COVERAGE: The book describes the properties, methods of testing, and behavior of the most important electrical materials (insulating materials, conductors, magnetic materials, cables, and various other materials.) No personalities are mentioned. There are 50 references, all Soviet.

Card 1/6

8(0) PHASE I BOOK EXPLOITATION SOV/2082

Elektroizolyatsionnyye materialy. ch 1: Svoystva materialov (Electrical Insulating Materials. Pt. 1: Properties of Materials) Moscow, Gosenergoizdat, 1958. 460 p. (Series: Spravochnik po elektrotekhnicheskim materialam, t. 1) 30,000 copies printed.

Eds. (Title page): Yu.V. Koritskiy and B.M. Tareyev; Ed. (Inside book): I.V. Antik; Tech. Ed.: A.M. Fridkin; Eds. of series: K.A. Andrianov, N.P. Bogoroditskiy, Yu.V. Koritskiy and B.M. Tareyev.

PURPOSE: This book is intended as a reference guide and textbook for engineers and technicians of electrical-engineering and radio-engineering industrial organizations and plants, of electric power stations and substations, electrical repair workshops, laboratories and scientific research institutes.

COVERAGE: The publication "Reference Guide on Electrical Engineering Materials" consists of 2 volumes. The 1st volume "Electrical Insulating Materials" consists of 2 parts. This is the 1st part

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and deals with the properties of insulating materials. The editors state that the book may serve as a systematically arranged and condensed source of technical data on most of the electrical insulating materials, their characteristics, standard specifications, production and machining processes, quality testing methods, and their applications in electrical and radio engineering. It also describes electrical insulating products: capacitor insulation, cable insulation, insulators, insulating materials for electrical machines, transformers, apparatus, radio equipment, and electrothermal apparatus. The book complies with recommendations of the Vsesoyuznoye byuro elektricheskoy izolatsii (All-Union Bureau of Electrical Insulating Materials) of MONITOE (VNITOE), issued in 1948. Each chapter is written by specialists and their names are listed in the Table of Contents. References are alloted separately to each chapter.

TABLE OF CONTENTS:

PART I. PROPERTIES OF MATERIALS

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

Electrical Insulating Materials (Cont.) SOV/2082

Card ~~14/16~~

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

AUTHORS: Mikhaylov, M. M., Kostenko, M. P., SOV/105-58-7-28/32
Neyman, L. R., Tareyev, B. M., Privezentsev, V. A., Zaytsev, I. A., Shramkov, Ye. G., Koritskiy, Yu. V.

TITLE: Professor V.T.Renne (Professor V.T. Renne) To His 50th Birthday (K 50-letiyu so dnya rozhdeniya)

PERIODICAL: Elektrichestvo, 1958, Nr 7, pp. 92 - 92 (USSR)

ABSTRACT: Vladimir Tikhonovich Renne was born on July 1st, 1908, in Kaluga. He graduated in 1930 from the Leningrad Polytechnical Institute and obtained the certificate of electrical engineer. Still a student, in 1928 he entered the telephone works "Krasnaya Zarya" and specialized in the field of electric technology. He organized a series of laboratories and directed them during several years. He worked out 15 types of paper-and mica condensers, thus industry being made independent of imports from abroad. He developed a series of cuprous oxide rectifiers for telephone equipment. He holds 8 patents. Since 1930 he teaches at the Leningrad Institute of Electromechanics (Leningradskiy elektromekhanicheskiy institut) and then at the Leningrad Institute of Electrical Engineering (Leningradskiy elektrotekhnicheskiy institut). From 1935 onwards he works at the Leningrad Polytechnical Institute (Leningradskiy

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

politekhnicheskiy institut) department of electric insulation and cable engineering, where he has a full-time job since 1939. He organized a laboratory for electric technology and electric condensers and published several manuals. In 1938 - Docent, in 1939 - Candidate of Technical Sciences, in 1951 - Doctor of Technical Sciences, in 1952 - Professor. He published more then 140 papers on electric insulation, electric technology, and condenser design. He maintains close relations with industry and scientific research institutes. He advises them and carries out scientific work together with them. For a number of years he was secretary in the Section of Electric Insulation at the VNITOE and is at present Member of the Bureau of Electric Insulation at the Ts-ENTOEP. He is the scientific head of the Scientific Society of Students at the Faculty of Electromechanics of the Leningrad Polytechnical Institute (LPI). There is 1 photograph.

1. Electrical engineering--USSR

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TARKYEV, B.M., prof., red.; OZERSKIY, V.A., red.; VORONIN, K.P., tekhn.red.

[Effect of radiation on electric insulating materials] Vozdeistvie radioaktivnykh izluchenii na elektroizoliatsionnye materialy. Moskva, Gos.energ.izd-vo, 1959. 87 p. (MIRA 12:5)
(Electric insulators and insulation) (Radioactivity)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M.

15(6) PHASE I BOOK EXPLOITATION SOV/2903

Elektroizolyatsionnyye materialy. Ch. 2: Metody ispytaniya i primeneniya materialov (Electrical Insulating Materials. Pt. 2: Methods of Testing and of Application of the Materials) Moscow, Gosenergoizdat, 1959. 476 p. (Series: Spravochnik po elektrotekhnicheskim materialam, t. 2) Errata slip inserted. 30,000 copies printed.

Eds. (Title page): Yu.V. Koritskiy and B.M. Tareyev; Ed. (Inside book): I.V. Antik; Tech. Ed.: A.M. Fridkin; Editorial Board of Series: K.A. Andrianov, N.P. Bogoroditskiy, Yu.V. Koritskiy, and B.M. Tareyev.

PURPOSE: The book is intended for technical personnel of the electrical and radio industries, electric power stations and substations, electric maintenance and repair shops, laboratories and scientific research institutes.

COVERAGE: This is the second part of Volume I of "Electrical Engineering Materials" and contains, in concise and systematic form, data on various types of the most commonly used electrical insulating materials and their properties, standards, methods of processing, applicability in electrical and radio engineering, and methods of testing. The following types of insulation are also described: capacitor insulation, cable insulation, insulators and insulation for electrical machines, transformers, radio equipment and electrothermal devices. References

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follow some chapters.

TABLE OF CONTENTS:

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

SOV/143-59-5-5/19

9(3)
AUTHORS: Tareyev, B.M., Doctor of Technical Sciences, Professor, and Lerner, M.M., Engineer

TITLE: An Investigation of the Forming Process of Aluminum Foils for Electrolytic Capacitors by Three-Phase Power Frequency Current

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Energetika, 1959, Nr 5, pp 36-45 (USSR)

ABSTRACT: Studying the process of static forming of anode aluminum foils by three-phase alternating current will result in a more complete evaluation of the advantages of this method, which eventually will find industrial application. In this paper, the authors consider the connection between capacitance of the foil sample to be formed and the linear forming voltage and also the direct voltage component in the tanks. Figure 1 shows the connection of 3 tanks for three-phase static forming of foils. The authors discuss the time required for forming the foils, the final forming currents and the speed of oxide layer formation. They

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

An Investigation of the Forming Process of Aluminum Foils for Electrolytic Capacitors by Three-Phase Power Frequency Current

compare the quantity of power required for different forming methods. The forming of aluminum foils was performed in tanks with stainless steel electrodes (steel 1Kh18N9T). The electrolyte consisted of boric acid (100 gr/liter) and borax (0.5 gr/liter), and had a temperature of 80°C. As a rule, 60 min were required for the forming process. Samples of 0.08 mm thick aluminum foils, 3x5 cm, having a purity of 99.95%, were subjected to forming. The data in Table 1 show that the final currents hardly depend on the forming voltage with three-phase forming; on the average they amount to 1.22 milliamp/cm^2. Experimental data confirmed that the final current density does not depend on the voltage. With three-phase forming the oxide layer is formed faster than with two-phase forming. If the foil formation is performed on direct current with the voltage $U_{=}$ and by three-phase alternating current with the voltage $U_{\sim}$, with the aforementioned electrolyte composition, then an

An Investigation of the Forming Process of Aluminum Foils for Electrolytic Capacitors by Three-Phase Power Frequency Current

identical capacitance of the foil may be obtained under the condition $U_{\sim} = U_{=}$. The direct voltage component U_0, during forming under these consitions, is equal to half the effective value of the linear voltage. In the ultimate case, when the resistance of the electrolyte is equal to zero, and if the valve effect of the oxide layer is ideal, U_0 is equal to the amplitude of the phase voltage. There are 2 diagrams, 9 graphs, 1 table and 3 Soviet references. This article was presented by the Kafedra elektroizolyatsionnoy i kabel'noy tekhniki (The Chair of Electrical Insulation and Cable Engineering).

ASSOCIATION: Vsesoyuznyy zaochnyy energeticheskiy institut (All-Union Correspondence Institute of Power Engineering)

SUBMITTED: December 28, 1958

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

8 (3)

AUTHORS: Tareyev, B. M., Doctor of Technical Sciences, Professor, Lerner, M. M., Engineer SOV/105-59-6-16/28

TITLE: Continuous Alternating Current Oxidation of the Anode Foil of Electrolytic Condensers (Nepreryvnoye oksidirovaniye peremennym tokom anodnoy fol'gi dlya elektroliticheskikh kondensatorov)

PERIODICAL: Elektrichestvo, 1959, Nr 6, pp 71 - 76 (USSR)

ABSTRACT: This is an investigation of the continuous-band-motion oxidation of anode foil bands with single-, two-, and three-phase a.c. A counterconnection of the baths appears to be most convenient. The utilization of troughs of conventional construction for a.c. oxidation is possible only if the troughs are made of oxidation-resistant material, (as, for example, stainless steel 1Kh18N9T). The highest operational stability during oxidation is achieved if one foil is pulled through counterconnected baths (as shown in figure 3b). With respect to an equal load distribution on the transformers a three-phase oxidation is very interesting. It gives, similar as a two-phase oxidation, an oxide layer of high quality. The oxidation of anode foils by continuous band motion by means of a.c. and counterconnected baths avoids the rectification of the a.c.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

Continuous Alternating Current Oxidation of the Anode Foil of Electrolytic Condensers

SOV/105-59-6-16/28

and hence the energy losses connected with such a transformation. No short-circuits will occur, if the foil breaks, the cos φ of the installation increases and the output also increases owing to the elimination of polarization at the electrodes. There are 7 figures, 1 table, and 7 Soviet references.

ASSOCIATION: Vsesoyuznyy zaochnyy energeticheskiy institut (All-Union Correspondence Institute of Power Engineering)

SUBMITTED: December 25, 1958

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., prof., doktor tekhn.nauk, otv.red.vypuska

[Dielectrics] Dielektriki. Moskva, 1960. 21 p. (Sborniki rekomenduemykh terminov, no.53). (MIRA 13:3)

1. Akademiya nauk SSSR. Komitet tekhnicheskoy terminologii.
(Dielectrics--Dictionaries)
(Russian language--Dictionaries--Polyglot)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

ANDRIANOV, K.A., red.; BOGORODITSKIY, N.P., red.; KORITSKIY, Yu.V., red.; PASYNKOV, V.V., red.; TARZIEV, B.M., red.; SOBOLEVA, Ye.M., tekhn.red.

[Handbook on electric engineering materials; in two volumes] Spravochnik po elektrotekhnicheskim materialam v dvukh tomakh. Moskva, Gos.energ.izd-vo. Vol.2. [Magnetic, conducting, semiconductor and other materials] Magnitnye, provodnikovye, poluprovodnikovye i drugie materialy. Pod red. N.P.Bogoroditskogo i V.V.Pasynkova. 1960. 511 p. (MIRA 14:1)
(Electric engineering--Materials)

AUTHORS: Aleksandrov, N. V., Larionov, A. N., Bragin, S. M., Grodnev, I. I., Drozdov, M. G., Yerofeyev, B. M., Kosmo, V. T., Mayofis, I. M., Troitskiy, I. D., Labystina, G. F., Sidorov, K. V., and Others

TITLE: Professor V. A. Privezentsev. On His 60th Birthday and the 35th Anniversary of His Scientific-pedagogical and Engineering Activity

PERIODICAL: Elektrichestvo, 1960, No. 7, p. 94

TEXT: This is a brief biography of Vladimir Alekseyevich Privezentsev, born at the village of Kolodkino, Moscow oblast', on June 10, 1900. In 1924 he finished his studies at the Elektrotekhnicheskiy fakul'tet MVTU (Department of Electrical Engineering of the MVTU), later on at the Moskovskiy promyshlenno-ekonomicheskiy institut (Moscow Institute of Industry and Economy), and the Vysshiye pedagogicheskiye kursy pri MVTU (Higher Pedagogical Course at the MVTU). In 1938, he dissertated for the degree of Candidate, became a Docent in 1939, and a Professor in 1946.

Professor V. A. Privezentsev. On His 60th Birthday and the 35th Anniversary of His Scientific-pedagogical and Engineering Activity S/105/60/000/07/25/027 B007/B005

He dissertated in 1951, and obtained the degree of Doctor of Technical Sciences in 1952. From June 1923, he worked for 20 years at the saved "Moskabel'" ("Moskabel'" Works) where he was a chief engineer between 1941 and 1945. From 1945 he worked as a chief engineer at the Tsentral'naya kabel'naya laboratoriya NKP (Central Cable Laboratory NKP) and as a deputy director for the scientific section of the Nauchno-issledovatel'skiy institut kabel'noy promyshlennosti (Scientific Research Institute of the Cable Industry). From 1949 on, he has been working as a department chief at the NIIKP. He cooperated in the rationalization of power cable constructions for 1-10 kv, conducted the production of automobile cables, and cables with glass wool-, caprone-, and enamel insulation. For 25 years he has been working at the MEI. At the NIIKP, he is supervising the work of post-graduate students. He wrote many books, handbooks on cable engineering, and more than 100 articles. For 15 years, he was the responsible editor of the scientific-technical periodical of cable engineering (edition of the "Moskabel'" Works and the TsKL), conducted for 15 years the kabel'naya sektsiya Nauchno-

Professor V. A. Privezentsev. On His 60th Birthday and the 35th Anniversary of His Scientific-pedagogical and Engineering Activity S/105/60/000/07/25/027 B007/B005

tekhnicheskogo soveta Ministerstva elektrotekhnicheskoy promyshlennosti (Cable Section of the Scientific and Technical Council at the Ministry of the Electrotechnical Industry), and was a member of the Presidium Vsesoyuznogo byuro po elektricheskoy izolyatsii (Presidium of the All-Union Bureau of Electric Insulation) for more than 15 years; later on, he cooperated in the work of the komissiya po dielektrikam i po terminologii pri AN SSSR (Commission on Dielectrics and Terminology at the AS USSR). There is 1 figure.

Card 3/3

TARLEV B.M.

TAREYEV, B.M., doktor tekhn.nauk, prof.; LERNER, M.N., kand.tekhn.nauk

Concerning the replacement of copper with aluminum in the electric industry. Elektrichestvo no.10:78-82 O '60. (MIRA 14:9)
(Electric engineering--Materials)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

CHILIKIN, M.G.; LARIONOV, A.N.; ANDRIANOV, K.A.; MESHKOV, V.V.; IONKIN, P.A.; ARKHIPOV, V.N.; PETROV, G.N.; BRAGIN, S.M.; PRIVEZENTSEV, V.A.; TAREYEV, B.M.

Professor N.G. Drozdov. Elektrichestvo no.10:90 O '60. (MIRA 14:9)

(Drozdov, Nikolai Gavrilovich, 1900-)

B/105/60/000/011/008/008
B012/B058

AUTHORS: Vladimirskiy, A. P., Dikushin, V. I., Petrov, I. I., Shinkov, N. A., Taroyev, B. K., Chilikin, M. G., and Others

TITLE: V. G. Zuzman, on the Occasion of His 50th Birthday and the 25th Anniversary of His Engineering, Scientific, and Pedagogical Activities

PERIODICAL: Elektrichestvo, 1960, No. 11, p. 94

TEXT: For 20 years Vladimir Grigor'yevich Zuzman has directed the elektrotekhnicheskiy otdel Eksperimental'nogo nauchno-issledovatel'skogo instituta metallorezhushchikh stankov (ENIMS) (Department of Electrical Engineering at the Experimental Scientific Research Institute of Metal-cutting Machine Tools) which plays an important role in laying down the technological rules for the electrical equipment of machine tools and other machinery. He is the author of more than 45 published papers and inventions in the field of electric drive and automatic control systems. He has delivered a great number of lectures at All-Union Technical Conferences. His main studies deal with controllable electric drives involving electronic, dynamoelectric, magnetic, and semiconductor amplifiers, as well as electromagnetic clutches of various types and improvements of low-voltage apparatus. His studies on theory and practice of comprehensive automation in machine building are noteworthy. In recent years, his team developed a series of new systems for the numerical control of machine tools, extensively using electronic means, and the calculation technique. V. G. Zuzman's pedagogical activity dates back to 1936, and at present he is teaching at the Vsesoyuznyy zaochnyy energeticheskiy institut (All-Union Correspondence Institute of Power Engineering). There is 1 figure.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

84600
S/181/60/002/010/023/051
B019/B056

9,2110 (1043, 1081, 1145)

AUTHORS: Tareyev, B. M. and Lerner, M. M.

TITLE: The Theory of Unilateral Conductivity of an Oxide Film on Aluminum

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2487-2492

TEXT: The present theory of unilateral conductivity of oxide films on aluminum describes satisfactorily the behavior of an oxidized sample immersed in an electrolyte. If, however, the sample is taken out of the electrolyte, this theory fails in the description of a number of its properties. This theory is especially not developed for electrolytic capacitors with solid electrolytes. The authors suggest a hypothesis that holds good for oxide films which are formed in weak electrolytes, if the former has a positive potential. In this hypothesis it is assumed that a p-n- junction exists, which is destroyed with the formation of an n-type semiconductor: 1) by removing the voltage from the sample, 2) by taking the sample out of the electrolyte, 3) by applying a negative

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84600

The Theory of Unilateral Conductivity of an Oxide Film on Aluminum

S/181/60/002/010/023/051
B019/B056

potential to the sample relative to the electrolyte (in this case the defects are in the oxide film). On the basis of this hypothesis suggested by the authors, it is possible to explain the behavior of oxidized Al-samples in the following cases: 1) The voltage is removed from a sample dipped into an electrolyte. 2) A negative potential is applied to the sample relative to the electrolyte. 3) The sample taken out of the electrolyte is subjected to the action of various media and temperatures. 4) Onto the sample taken out of the electrolyte, a layer of p-type semiconductor or of metal is applied. There are 24 references: 3 Soviet, 11 US, 3 Dutch, 5 German, 1 Swiss, and 1 French.

SUBMITTED: August 29, 1959

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

BOGORODITSKIY, Nikolay Petrovich; PASYNKOV, Vladimir Vasil'yevich; TAREYEV, Boris Mikhaylovich; RENNE, V.T., doktor tekhn.nauk, prof., red.; ZHITNIKOVA, O.S., tekhn.red.

[Electric engineering materials] Elektrotekhnicheskie materialy. Izd.4., perer. Moskva, Gos.energ.izd-vo, 1961. 528 p. (MIRA 14:6)

1. Zaveduyushchiy kafedroy elektroizolyatsionnoy i kabel'noy tekhniki Leningradskogo politekhnicheskogo instituta im. M.I.Kalinina (for Renne).
(Electric engineering--Materials)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., laureat Stalinskoy premii, doktor tekhn. nauk, prof.; MAGIDSON, O.A., red.

[Fundamentals of the physics of dielectrics; lectures] Osnovy fiziki dielektrikov; lektsii. Moskva, Vses.zaochnyi energ. in-t. No.1.[Electrical conductivity of dielectrics] Elektroprovodnost' dielektrikov. Izd.4., perer. 1961. 46 p. (MIRA 15:7)
(Dielectrics)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., prof., red.; BULGAKOV, V.A., red.; LARIONOV, G.Ye., tekhn. red.

[Electric insulating materials with increased heat resistance] Elektroizoliatsionnye materialy povyshennoi nagrevostoikosti; sbornik perevodov statei. Moskva, Gosenergoizdat, 1961. 103 p. (MIRA 16:5)
Translated from the English.
(Electric insulators and insulation)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

MIKHAYLOV, A.I., prof.; TAREYEV, B.M., prof.

[Scientific information in the field of electric and power engineering] Nauchnaia informatsiia v oblasti elektrotekhniki i energetiki; lektsiia. Moskva, Vses. zaochnyi energ. in-t, 1961. 17 p. (MIRA 16:12)

1. Direktor Vsesoyuznogo instituta nauchnoy i tekhnicheskoy informatsii (for Mikhaylov). 2. Zaveduyushchiy kafedroy elektroizolyatsionnoy i kabel'noy tekhniki Vsesoyuznogo zaochnogo energeticheskogo instituta (for Tareyev).
(Power engineering--Information services)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

BRAGIN, S.M.; BUTAKOV, I.N.; KRASIN, A.K.; SOKOLOV, A.A.; STEKOL'NIKOV, I.S.; TAREYEV, B.M.; FIALKO, Ye.I.; CHILIKIN, M.G.

Fiftieth anniversary of the birth of Professor A.A.Vorob'ev. Elektrichestvo no.1:93 Ja '61. (MIRA 14:4)
(Vorob'ev, Aleksandr Akimovich)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., doktor tekhn.nauk, prof.; LERNER, M.M., kand.tekhn.nauk

Trends in the development of aluminum electrolytic capacitors abroad. Elektrichestvo no.5:81-84 My '61. (MIRA 14:9)
(Electric capacitors)

37748

S/196/62/000/009/009/018
E114/E184

9.2110

AUTHORS: Lerner, M.M., and Tareyev, B.M.

TITLE: Single phase formation of anodic foil for capacitors using alternating current

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.9, 1962, 6, abstract 9 B28. (Tr. vses. zaoch. energ. in-ta, no.18, 1961, 77-91)

TEXT: Static formation of foil in a single bath directly connected to an a.c. power supply was considered. Two cases were analyzed: 1) when the impedance of the foil $|\bar{Z}_ф|$ exceeds that of the bath $|\bar{Z}_B|$; and 2) when $|\bar{Z}_ф|$ is of the same order of magnitude as, or much less than, $|\bar{Z}_B|$. Case 1 is possible if the bath is made of a material which is not affected by a.c. (for instance stainless steel). In this case, a large (reverse) current flows in the conducting direction of the oxide skin which is being formed, and more energy is required than when forming with d.c., or by other a.c. methods, and this, to some extent, impairs the quality of the oxide film because it is intensively

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Single phase formation of anodic ...

heated during the conducting half cycles. At the same time, the voltage utilization factor K, which is the ratio of the voltage across the oxide film to the total voltage applied to the bath, is high - the whole voltage of the source of power is applied across the oxide film with the exception of voltage drop in the electrolyte. Case 2 is possible if the bath is made of a material susceptible to a.c. (for instance aluminium), and the surface area of the bath is about equal to the area of the foil (or is a little less). In case 2, the reverse currents flowing through the foil are much less than in case 1 because $|Z_B| \geq |Z_\Phi|$. This reduces the a.c. power consumption and the oxide film is of better quality because heating is less. In case 2, K is much lower, particularly when $|Z_B| > |Z_\uparrow|$. Curves are given of capacitance and current as function of the time of a.c. or d.c. forming for case 1. The oxide film formation time counted from the moment when the current and the capacity cease to fall is about 15-20 mms for both a.c. and d.c. With a.c. the time of passage of ionic currents forming the oxide film is much less than the time of application of voltage,

while with d.c. both intervals are the same. With a.c. and a single bath, the oxide layer forms only during that part of the half cycle during which the current passes through the foil in the non-conducting direction for the oxide layer. The ionic current begins to pass through the oxide layer at an instant when the applied e.m.f. is greater than the back e.m.f. in the oxide film, which is proportional to its thickness. The authors call the time of passage of the ionic current Δt, 'the absolute time of formation'. Inasmuch as Δt is a function of time of the a.c. forming period, full absolute time τ during all the periods can be calculated from the formula:

$$\tau = \overline{\Delta t} \cdot \frac{t_{form}}{T}, \text{ where}$$

$$\overline{\Delta t} = \frac{1}{t_{form}} \int_0^{t_{form}} \Delta t \, dt$$ is the time of formation of the oxide layer, T - full period of the forming voltage.

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If, to a first approximation, it is considered that the time function is linear

$$\Delta t = \frac{T}{2}\left(1 - \frac{t}{t_{form}}\right)$$

then τ = 5 minutes for a.c. conditions compared with 20 minutes for d.c. Therefore, whilst a.c. is flowing the instantaneous density of ionic current should be somewhat greater than with d.c. Comparative curves are given plotting reverse capacitance against voltage for d.c. and a.c. In the range up to 160 volts the specimens are of the same capacitance if the effective voltage with a.c. is three quarters of the d.c. voltage (the forming takes place in aqueous solution 100 g/litre boric acid and 0.5 g/litre borax at a temperature of 80 °C.). In the second case, film formation was studied with various ratios of foil to bath surface area. It is shown that, as the bath area is reduced, the consumption of electric current decreases. The problem of comparing a.c. and d.c. processes is discussed. A.c. and d.c. can both be conducted in three ways: firstly, at

a constant current density; secondly, at constant voltage; and thirdly, mixed. However, not all these ways are suitable for comparing a.c. and d.c. processes. In the first way comparison is difficult because with a.c. not all of the current is used for the formation of the oxide layer. It has a considerable capacitative component, and the reverse current does not form the oxide at all. It is impracticable to utilize the third (mixed) way for comparison because it partially includes the first way. The most convenient is the second way - comparison at constant forming voltage. The choice of the equivalent voltages for a.c. and d.c. can be made from the requirements of creating the same capacitance of oxide layer - its most stable and simply measured characteristic. In this case, other conditions being equal, the a.c. voltage U is considered equivalent to a d.c. voltage U, if the capacitance of the samples being compared after formation is the same. 2 references.

Abstractor's remarks. The detailed analysis of the a.c. method shows that an aluminium bath whose surface is much greater than

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that of the foil cannot be included in case 1 to the same extent as the a.c. method with a stainless steel bath. Although with an aluminium bath of extensive surface $|\bar{Z}_B| \ll |\bar{Z}_\Phi|$ there is no sharp increase in the reverse current with a.c. under these conditions because both the bath and the foil have rectifying properties. Thus, the bath and the foil being formed in it comprise a system of two opposing electrolytic valves. The a.c. case with one aluminium bath of extensive surface was further investigated by the authors and practical confirmation was obtained of the possibility of the dynamic forming of an oxide layer using a.c. in industrial conditions in one bath, and in such conditions the oxide layer is of relatively high quality.

[Abstractor's note: Complete translation.]

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

PRIVEZENTSEV, Vladimir Alekseyevich; MAGIDSON, Abram Osipovich; TAREYEV, B.M., prof., doktor tekhn. nauk; YEMZHIN, V.V., tekhn. red.

[Artificial and synthetic fibers and films for electrical insulation]Iskusstvennye i sinteticheskie volokna i plenki dlia elektricheskoi izoliatsii. Moskva, Gosenergoizdat, 1962. 111 p. (Polimery v elektroizoliatsionnoi tekhnike, no.3) (MIRA 15:10)

(Electric insulators and insulation)
(Textile fibers, Synthetic)

RENNE, V.T., doktor tekhn. nauk, prof.; TAREYEV, B.M., doktor tekhn.nauk, prof., red.

[Study of the relationship between the properties of condenser paper and the quality of paper condensers; manual for the course in "Technology and electric insulation"] Issledovanie sviazi mezhdu svoistvami kondensatornoi bumagi i kachestvom bumazhnykh kondensatorov; uchebnoe posobie po kursu "Tekhnologiia elektricheskoi izoliatsii." Moskva, 1962. 29 p. (MIRA 17:5)

1. Moscow. Vsesoyuznyy zaochnyy energeticheskiy institut. Kafedra elektroizolyatsionnoy i kabel'noy tekhniki.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

GAYLISH, Ye.A.; DROZDOV, N.G.; YEVSTROP'YEV, K.S.; KAZARNOVSKIY, D.M.; NEYMAN, L.R.; PASYNKOV, V.V.; PRIVEZENTSEV, V.A.; REMME, V.T.; TAREYEV, B.M.

N.P. Bogoroditskii; on his sixtieth birthday and the thirty-fifth anniversary of his theoretical and educational work. Elektrichestvo no.7:87-88 Jl '62. (MIRA 15:7)
(Bogoroditskii, Nikolai Petrovich, 1902-)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., doktor tekhn.nauk, prof.; LERNER, M.M., kand.tekhn.nauk

Concerning L.L.Odynets' article "Efficiency of using a.c. for shaping plate foil in the manufacture of electrolytic condensers. Izv. vys. ucheb. zav.; energ. 5 no.2:112-113 F '62.
(MIRA 15:3)

(Condensers (Electricity))

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREJEV, B.M., dr tehn. nauka [Tareyev, B.M.] (U.S.S.R.); LERNER, M.M., kand. tehn. nauka (U.S.S.R.); ILOVAJSKI, Pavle, inz. [translator]

Substituting aluminum for copper in electrical engineering. Elektroprivreda 15 no.4:170-176 Ap '62.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

GRUBNIK, N.N.; TAREYEV, B.M., doktor tekhn. nauk, prof., red.

[Enamelled wires; a lecture] Emalirovannye provoda; lektsiia. Moskva, Vsesoiuznyi zaochnyi energ. in-t, 1963. 53 p. (MIRA 17:3)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

SHVEDOVA, L.A.; TAREYEV, B.M., doktor tekhn. nauk, prof., red.

[Lectures on the course "Calculation and construction of electrical insulation"] Lektsii po kursu "Raschet i konstruirovanie elektricheskoi izoliatsii" Moskva, Vses. zaochnyi energeticheskii in-t. No.1. [Design of oil-filled entrances] Raschet maslonapolnennykh vvodov. 1963. 38 p.
(MIRA 17:4)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

KAZARNOVSKIY, David Mikhaylovich; TAREYEV, Boris Mikhaylovich; KUCHINSKIY, G.S., red.; SOBOLEVA, Ye.M., tekhn. red.

[Testing of electric insulating materials] Ispytaniia elektroizoliatsionnykh materialov. Moskva, Gosenergoizdat, 1963. 314 p. (MIRA 17:1)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

BOGORODITSKIY, N.P.; VAVILOV, V.S.; VALEYEV, Kh.S.; DROZDOV, N.G.; KORITSKIY, Yu.V.; PRIVEZENTSEV, V.A.; RENNE, V.T.; TAREYEV, B.M.; YAMANOV, S.A.

B.M. Vul; on his 60th birthday and 35th anniversary of his scientific work. Elektrichestvo no.8:95 Ag '63. (MIRA 16:10)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

YAMANOVA, L.V.; TAREYEV, B.M., doktor tekhn. nauk, prof., red.

[Electric condensers; lectures] Elektricheskie kondensatory; lektsii. Moskva, Vses. zaochnyi energ. in-t. No.1 1964. 84 p. (MIRA 18:3)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., prof., laureat Stalinskoy premii, doktor tekhn. nauk

[Fundamentals of the physics of dielectrics; lectures] Osnovy fiziki dielektrikov; lektsii. Moskva, Vses. zaochnyi energ. in-t. No.1 - No.2. Izd.4., perer. 1962. 87 p.
(MIRA 17:9)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

LERNER, M.M., kand. tekhn. nauk, dots. MATSONASHVILI, B.N., kand. fiz.-matem. nauk; RENNE, V.T., doktor tekhn. nauk, prof.; TAREYEV, B.M., doktor tekhn. nauk, prof., red.

[Electric engineering materials: electric condensers, wires, and cables] Elektrotekhnicheskie materialy, elektricheskie kondensatory, provoda i kabeli 1962-1963. Moskva, 1964. 158 p. (MIRA 18:2)

1. Akademiya nauk SSSR. Institut nauchnoy informatsii.

GOROKHOV, P.K., kand.tekhn. nauk; GOR'KOVA, V.I., kand. tekhn. nauk; PAVLOV, L.I., kand. tekhn. nauk; SERGEYEV, N.P.; TAREYEV, B.M., doktor tekhn. nauk, prof.; SHMOTKIN, I.S.; KURBATOVA, N.S. kand. tekhn. nauk, prof., red.; CHESKIS, Z.B., red.

[French-Russian electrical engineering dictionary] Frantsuzsko-russkii elektrotekhnicheskii slovar'. Pod red. N.S.Kurbatovoi i B.M.Tareeva. Moskva, Sovetskaia entsiklopediia, 1965. 720 p. (MIRA 18:12)

BOGORODITSKIY, Nikolay Petrovich; VOLOKOBINSKIY, Yuriy Mikhaylovich; VOROB'YEV, Aleksandr Akimovich; TAREYEV, Boris Mikhaylovich; RENNE, V.T., retsenzent; VODOP'YANOV, K.K., retsenzent; KAZARNOVSKIY, D.M., nauchn. red.; PAVLOVA, L.S., red.

[Theory of dielectrics] Teoriia dielektrikov. Moskva, Energiia, 1965. 344 p. (MIRA 18:12)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

BESSONOV, L.A.; BABAKOV, N.A., prof., retsenzent; KOLOBKOV, D.S., prof., retsenzent; TAREYEV, B.M., prof., doktor tekhn. nauk retsenzent

[Principles of graph theory] Osnovy teorii grafov; uchebnoe posobie. Moskva, Vses. zaochnyi energ. in-t, 1964. 48 p. (MIRA 19:1)

SHVEDOVA, L.A.; TAREYEV, B.M., doktor tekhn. nauk prof., red.

[Manual on a course in "Calculation and design of electrical insulation"] Uchebnoe posobie po kursu "Raschet i konstruirovanie elektricheskoi izoliatsii. Moskva, Vses. zaochnyi energ. in-t. No.2. 1964. 74 p.
(MIRA 19:1)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

APROSINA, Z.G., kand. med. nauk; AFANAS'YEVA, K.A., kand. med. nauk; AKHREM-AKHREMOVICH, R.M., prof.; BLYUGER, A.F., doktor med. nauk; BONDAR', Z.A., prof.; VASILENKO, V.Kh., prof.; KIKODZE, I.A., kand. med. nauk; LINDENBRATEN, L.D., prof.; LOGINOV, A.S., kand. med. nauk; MANSUROV, Kh.Kh., prof.; NAZARETYAN, Ye.L., kand. med. nauk; NOGALLER, A.M., prof.; PLOTNIKOV, N.N., prof.; SEMENDYAYEVA, M.Ye., kand. med. nauk; TAREYEV, Ye.M., prof.; TAREYEV, I.Ye., kand. med. nauk; TER-GRIGOROVA, Ye.N., prof.; CHERNYSHEVA, Ye.V., kand. med. nauk; SHVARTS, L.S., prof.; MYASNIKOV, A.L., prof., zam. otv. red.; BOGOSLAVSKIY, V.A., red.; SEMENDYAYEVA, M.Ye., red.

[Multivolume manual on internal diseases] Mnogotomnoe rukovodstvo po vnutrennim bolezniam. Moskva, Meditsina. Vol.5. 1965. 724 p. (MIRA 18:9)

1. Deystvitel'nyy chlen AMN SSSR (for Tareyev, Ye.M., Vasilenko, Myasnikov).

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

KONYUKHOV, I.A.; BROD, I.O., prof., red.; TARNYEV, I.N., ved.red.; MASOLOV, Ya.M., tekhn.red.

[Studying mesozoic deposits in eastern Ciscaucasia; oil and gas-producing prospects] Opyt izucheniia mezozoiskikh otlozhenii Vostochnogo Predkavkaz'ia; v sviazi s perspektivami neftegazonosnosti. Moskva, Gosinti, 1958. 125 p. (MIRA 12:3)
(Caucasus, Northern--Geology, Stratigraphic)

TARSYEV, V. M.

"Heat Engineering" 1951

Textbook. Contain 2 chapters on turbines and compressors. Jet engines mentioned p. 706.

KUZOVLEV, V.A., inzhener-mekhanik; TAREYEV, V.M., doktor tekhnicheskikh nauk, professor, redaktor.

[Technical thermodynamics] Tekhnicheskaia termodinamika. Izd.3. Pod obshchei red. V.M.Tareeva. Moskva, Gos.izd-vo vodnogo transporta, 1953. 330 p. (MLRA 7:3)

(Thermodynamics)

MAKHAN'KO, M.G., kandidat tekhnicheskikh nauk; TARKOV, V.M., professor; TSELISHCHEV, P.A.; KHITROV, P.A., tekhnicheskiy redaktor.

Conversion of internal combustion engines to gaseous fuels. Trudy TSNII MPS no.74:3-96 '54. (MLRA 8:5)
(Gas and oil engines)

TAREYEV, V.M., professor.

Serial construction of velocity triangles in the heat calculation of turbines. Trudy MIIT no.82/83:231-236 '55. (MLRA 9:8)
(Heat engineering) (Turbines)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, V.M., professor.

Problem of the mechanical efficiency of the vanes of steam and gas turbines. Trudy MIIT no.82/83:237-242 '55. (MLRA 9:8)
(Steam turbines--Blades)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, V.M., professor; DOGIN, M.Ye., dotsent; AGAPOV, V.M., inzhener.

Automatization of the diesel installations in railroad electric power stations. Trudy MIIT no.82/83:432-449 '55. (MLRA 9:8)
(Electric railroads--Substations)
(Automatic control)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

KUZOVLEV, Vitaliy Aleksandrovich; TAREYEV, V.M., professor, doktor tekhnicheskikh nauk, redaktor; SHLENNIKOVA, Z.V., redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Technical thermodynamics] Tekhnicheskaia termodinamika. Izd. 4-oe. Pod obshchei red. V.M.Tareeva. Moskva, Izd-vo "Rechnoi transport," 1956. 338 p. (MLRA 9:8)
(Thermodynamics)

VRASHEV, Sergey Pavlovich, inzh.; LETNIK, Aleksandr L'vovich, dots.; SHIFRIN, Daniil Moiseyevich, inzh.; TAREYEV, V.M., prof., doktor tekhn. nauk, red.; SHERSTYUK, A.N., kand. tekhn. nauk, retsenzent.; KVITKOVSKIY, Yu.V., kand. tekhn. nauk, red.; MOLKL', B.I., tekhn. red.

[Machinery] Mashinovedenie. Izd. 2., dop. i perer. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 483 p. (MIRA 11:12)

(Machinery)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, Vladimir Mikhaylovich, prof., doktor tekhn.nauk; NIGMATULIN, I.N., doktor tekhn.nauk, retsenzent; SHLENNIKOVA, Z.V., red.izd-va; BOBROVA, V.A., tekhn.red.

[Reference book on thermal calculation of operating processes in internal combustion engines] Spravochnik po teplovomu raschetu rabochego protsessa dvigatelei vnutrennego sgoraniia. Moskva, Izd-vo "Rechnoi transport," 1959. 399 p. (MIRA 12:9)
(Gas and oil engines)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

11(1); 26(4) PHASE I BOOK EXPLOITATION SOV/3043

Tareyev, Vladimir Mikhaylovich, Doctor of Technical Sciences, Professor

Spravochnik po teplovomu raschetu rabochego protsessa dvigateley vnutrennego sgoraniya (Handbook on Thermal Calculations for Working Processes of Internal Combustion Engines) Moscow., Izd-vo "Rechnoy Transport", 1959. 403 p. Errata slip inserted. 8,500 copies printed.

Reviewer: I. N. Nigmatulin, Doctor of Technical Sciences; Ed. of Publishing House: Z. V. Shlennikova; Tech. Ed.: V. A. Bodrova.

PURPOSE: The book is intended for students of schools of higher technical education, aspirants, and technical personnel of research institutes and design bureaus.

COVERAGE: The book deals with basic calculations related to the thermal efficiency of internal combustion engines. The first part treats the theoretical principles underlying such calculations. It includes the theory, design, and operation of internal combustion engines. The principal efficiency standards and the values of respective coefficients are determined. The second part discusses ten main types of engines and demonstrates how

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efficiency coefficients are calculated. The engines discussed differ in purpose, type of fuel, number of strokes, degree of compression, type of scavenging and supercharging or its absence, and speed. Particular attention is paid to calculation methods developed by V. I. Grinevetskiy. The contributions of Professors N. R. Brilling, M. M. Maslennikov, and A. S. Orlin to the study of internal combustion engines are mentioned. There are 38 references, all Soviet.

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Handbook on Thermal Calculations (Cont.) SOV/3043

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AVAILABLE: Library of Congress

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TAREYEV, V.M., prof.

Selecting indices of compression and expansion polytropes in the thermal analysis of internal-combustion engines. Trudy MIIT no.112:27-55 '59. (MIRA 13:2)
(Gas and oil engines)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, V.M., prof.

Abridged calculation of the exhaust process in two-cycle engines.
Trudy MIIT no.112:56-84 '59. (MIRA 13:2)
(Gas and oil engines)

KUZOVLEV, Vitaliy Aleksandrovich; TAREYEV, V.M., prof., doktor tekhn. nauk, red.; VOLCHOK, K.M., tekhn.red.

[Principles of heat engineering] Osnovy teplotekhniki. Pod red. V.M.Tareeva. Izd.2. Leningrad, Izd-vo "Rechnoi transport," Leningr.otd-nie, 1960. 199 p. (MIRA 13:11)
(Heat engineering)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, Vladimir Mikhaylovich, prof., doktor tekhn. nauk; GORBACHEV, A.V., red.; VOLCHOK, K.M., tekhn. red.

[Manual on the thermal analysis of the working process of internal combustion motors] Spravochnik po teplovomu raschetu rabochego protsessa dvigatelei vnutrennego sgoraniia. Izd.3., perer. Leningrad, Izd-vo "Rechnoi Transport" Leningr. otd-nie, 1961. 415 p. (MIRA 14:9)

(Gas and oil engines)

AID 757 - X

Elektrotekhnicheskiye materialy

Pages 214-233

Ch. 9 Conducting Materials
Copper: basic data, treatment, brass, data on wires.
Aluminum, basic data, Aldrey type.
Steel, characteristics, wire manufacture "bimetal", data.
Others: Tungsten: treatment, basic data; molybdenum, platinum and mercury, basic data.
High resistance alloys: constantan, basic data; manganin, nichrome, "Fechrale" and their basic data.
Carbon: brushes, carbon and graphite, "GOST" standards, basic data, table on p. 232.

233-248

Ch. 10 Insulated Cables
Wires for windings: basic data, types, tables on pp. 235, 236, 239.
Power cables: diagrams, basic data, "GOST" standards, research of S. M. Bragin mentioned; "vinyflex" and "metalvyn" developed by Andrianov and Ushakov; types of cables and wires: SK, SG, SA, SB, OSB and OSK listed, basic data given; a score of names of scientists developing research on wires and cables is attached.

248-259

Ch. 11 Magnetic Materials
General information: brief review of achievements.

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Elektrotekhnicheskiye materialy

Pages

Laminated steel "GOST" standards, basic data, types, table on p. 254.

Various magnetic materials: permalloy, "alsifer" developed by A. S. Zaymovskiy, basic data; magneto-dielectrics, developed by A. S. Zaymovskiy, N. N. Shol'ts, L. I. Rabkin, V. S. Yevseyev for super high frequencies, basic data.

Materials for permanent magnets: alloy types, basic data, table on p. 258. 259-282

Ch. 12 Various Materials

Lead: basic data, types.

Soldering materials: soft and hard tin, types and table on p. 262, compounds with copper, silver, zinc, cadmium, phosphorus, aluminum, fusing agents: colophony, chlorine, fluorine, etc.; compounds with sodium, potassium, zinc and lithium.

Cement, putty, paste, glue: Portland cement types, according to "GOST" standards; gypsum, lead monoxide and glycerine (gletoglycerine); "ELSI" paste, composition; carbinol glue, composition, also used with nitrous acid,

AID 757 - X

Elektrotekhnicheskiye materialy

developed by I. P. Nazarov and based on synthetic rubber; glues BF-2 and BF-4 made of synthetic resin and alcohol.
Bimetals: general information, basic data, properties.
Materials for thermo-couples: "copel", "alumel" and "chromel", basic data.
Thermo color films (temperature recorders), containing mercury, silver, copper.
Storage battery electrolytes, basic data, "GOST" standards; alkali electrolytes, basic data, "GOST" standards, and process.
No. of References: 25 Russian, 1945-1952.
Facilities: Names of Russian scientists listed in Table of Contents.

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TAREEV, B. M., ed.

AKADEMIIA nauk SSSR.

Scientific literature on dielectrics Moskva, Izd-vo Akademii nauk SSSR, 1952. 671 p.
(53-25640)

Z5834.D48A45

TAREYEV, B. M. May 52

USSR/Electricity - Personalities

"Professor N. P. Bogoroditskiy, in Connection With His 50th Birthday," P. I. Skotnikov, A. F. Alabshev, S. Ya. Sokolov, A. A. Vavilov, V. V. Pasynkov, B. M. Tareyev

"Elektrichestvo" No 5, p 88

Reviews main features of professional life of Nikolay Petrovich Bogoroditskiy, born 20 May 02 in Tashkent. His principal interest has been development of h-f dielectrics. Between 1933 and 1942 he developed the now widely-used radio materials tikond, micalex, h-f glass, radio porcelain, and ultra-porcelain. Affiliations include Military Elec Eng Acad imeni Budennyy (1933 - 1942) and a large plant laboratory (where he produced a number of inventions) during World War II. He has published a number of articles in journals, books, and textbooks. He received three Stalin Prizes: for an invention in field of ceramics(1942); for textbook "Electrical Engineering Materials"(1952); and for development and organization of mass production of parts for radio equipment (1952).

PA 240T58

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B. M.

USSR/Electricity - Education Jun 53

"Correspondence-School Advanced Training of Graduate Engineers," Prof B.M. Tareyev, Dr Tech Sci; Engr A.O. Magidson, All-Union Corresp Power Eng Inst (VZEI)

Elektrichestvo, No 6, pp 57-59

Describes organization of correspondence-school advanced training for graduate power engrs on basis of experience of VZEI in Moscow. Lists, discusses subject matter of projects recently completed for advanced training with VZEI by 8 persons from 8 different places (including Leninakan, Sochi, Taganrog). Submitted 22 Jan 53.

268T54

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; GIKIS, A.F., dotsent, kandidat tekhnicheskikh nauk; MEZHLUMOV, A.A., dotsent, kandidat tekhnicheskikh nauk (Baku); STOLOV, L.I., dotsent, kandidat tekhnicheskikh nauk (Kazan'); YUMATOV, A.A., inzhener (Kronshtadt); RAKHIMOV, G.R., dotsent, kandidat tekhnicheskikh nauk; KONSTANTINOV, V.I., inzhener (Moscow); NEYMAN, L.R.; ZAYTSEV, I.A., dotsent, kandidat tekhnicheskikh nauk; LUR'YE, A.G., dotsent, kandidat tekhnicheskikh nauk.

Terminology of theoretical electrical engineering. Elektrichestvo no.2:74-82 F '54. (MLRA 7:2)

1. Vsesoyuznyy zaochnyy energeticheskiy institut (for Tareyev). 2. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta (for Gikis). 3. Sredneaziatskiy politekhnicheskiy institut (for Rakhimov). 4. Chlen-korrespondent Akademii nauk SSSR (for Neyman). 5. Leningradskiy politekhnicheskiy institut im. Kalinina (for Neyman, Zaytsev, Lur'ye). (Electric engineering--Terminology)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

VINTER, A.V., akademik; KUKUSHKIN, I.N., inzhener; TRAPEZNIKOV, V.A.; NIKOLAYEV, A.T., inzhener (Muromtsevo, Vladimirskoy obl.); KUDELIN, Ya.M. (Muromtsevo, Vladimirskoy obl.); PETROV, I.I., dotsent, kandidat tekhnicheskikh nauk (Moscow); BADALYANTS, M.G., inzhener; BELICHENKO, G.M., inzhener; KLAPCHUK, L.D., inzhener; FRANTSUZOV, Ye.M., inzhener; TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; MAGIDSON, A.O., inzhener.

Improving the knowledge of power engineers through correspondence courses. Remarks on B.M.Tareev's and A.O.Magidson's article. Elektrichestvo no.3:76-80 Mr '54. (MLRA 7:4)

1. Energeticheskiy institut im. Krzhizhanovskogo Akademii nauk SSSR (for Vinter). 2. Glavnyy energetik Gor'kovskogo avtomobil'nogo zavoda im. Molotova (for Kukushkin). 3. Institut avtomatiki i telemekhaniki Akademii nauk SSSR (for Trapeznikov). 4. Chlen-korrespondent Akademii nauk SSSR (for Trapeznikov). 5. Leninakanges (for Badalyants). 6. Dnepropetrovskiy institut inzhenerov transporta (for Belichenko). 7. Kurakhovskaya gres (for Klapchuk). 8. Orekhovo-Zuyevskaya tets (for Frantsuzov). 9. Vsesoyuznyy zaochnyy energeticheskiy institut (for Tareyev and Magidson).

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TARNIEV, B.M., professor, doktor tekhnicheskikh nauk.

In the scientific-technical society of the All-Union Institute for Correspondence Courses in Power Engineering. Elektrichestvo no.3:90 Mr '54. (MLRA 7:4)

1. Predsedatel' NTO Vsesoyuznogo zaochnogo energeticheskogo instituta.
(Power engineering--Study and teaching)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

DROZDOV, N.G., professor, doktor tekhnicheskikh nauk; PRIVEZENTSEV, V.A., professor, doktor tekhnicheskikh nauk; KOMAROV, N.S., dotsent, kandidat tekhnicheskikh nauk; NIKULIN, N.V., dotsent, kandidat tekhnicheskikh nauk; SHUMSKIY, I.I., dotsent, kandidat tekhnicheskikh nauk; KREMLEVSKIY, P.A., kandidat tekhnicheskikh nauk; GEPPE, A.P., inzhener; ALEKSANDROV, N.V., professor, doktor tekhnicheskikh nauk; TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; KYGENSON, L.S., professor, doktor tekhnicheskikh nauk; STEPANOV, V.S., dotsent, kandidat tekhnicheskikh nauk; MAGIDSON, A.O., inzhener.

"Science of electrical materials." M.M.Mikhailov. Reviewed by N.G. Drozdov, and others. Elektrichestvo no.3:93-94 Mr '54. (MLRA 7:4)

1. Moskovskiy energeticheskiy institut im. Molotova. 2. Vsesoyuznyy zaochnyy energeticheskiy institut.
(Electric insulators and insulation) (Electric conductors)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M.

AID P - 663

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 32/34

Author : Tareyev, B. M., Dr. of Tech. Sci., Prof., Chairman of the Scientific and Technical Society of the All-Union Power Engineering Correspondence Institute (VZEI)

Title : Scientific and Technical Society of the VZEI (Current News)

Periodical : Elektrichestvo, 9, 94, S 1954

Abstract : The 5th scientific and technical conference of the Institute was held in May 1954. 28 reports were discussed in the sections of the Institute.

Institution : VZEI (Scientific and Technical Society of the All-Union Power Engineering Correspondence Institute)

Submitted : No date

TAREYEV - B.M.

BABIKOV, M.A.; VENIKOV, V.A.; DROZDOV, N.G.; PRIVEZENTSEV, V.A.; SOLOV'YEV, I.I.; TAREYEV, B.M.; NIKULIN, N.V.

Professor S.M.Bragin. Elektrichestvo no.12:82-83 D '54. (MLRA 7:11)
(Bragin, Sergei Mikhailovich, 1894-)

TAREYEV, Boris Mikhaylovich, laureat Stalinskoy premii, d-r tekhnicheskikh nauk; YEZHKOV, V.V., redaktor; SKVORTSOV, I.M. tekhnicheskiy redaktor.

[Electric engineering materials] Elektrotekhnicheskie materialy. Izd.5-oe perer. Moskva, Gos.energ.izd-vo, 1955. 256 p.(MLRA 8:10)
(Electric engineering--Materials)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

BOGORODITSKIY, N.P., PASYNKOV, V.V.; TAREYEV, B.M.; REINE, V.T., redaktor
VORONETSKAYA, L.V., tekhnicheskiy redaktor.

[Materials used in electric engineering] Elektrotekhnicheskie materialy. Izd-vo 302, pere. Moskva, Gos. energ. izd-vo, 1955. 372 p. (MLRA 8:8)
(Electric engineering--Materials)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

JARMYEV, B.M., professor, redaktor; YEZHKOV, V.V., redaktor; BORONIN, K.P., tekhnicheskiy redaktor

[Fluorine organic compounds used as electric insulating materials. Translations] Ftororganicheskie elektroizolyatsionnye materialy. Perevody statei pod red. V.M.Tareeva. Moskva, Gos.energ. izd-vo, 1957. 62 p. (MLRA 10:9)
(Electric insulators and insulation)
(Fluorine organic compounds)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

GOLUBTSOVA, Valeriya Alekseyevna; TARNYKV, B.M., red.; MEDVEDEV, L.Ya., tekhn.red.

[History and prospects for the development of electric insulation materials] Istoriia i perspektivy razvitiia elektroizoliatsionnykh materialov. Moskva, Gos.energ.izd-vo, 1957. 76 p. 9 graphs (MIRA 11:2)

(Electric insulators and insulation)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., prof., red.; BORUNOV, N.I., tekhn.red.

[Recommendation for the classification of materials for the insulation of electrical machinery and apparatus in relation to their thermal stability in service] Rekomendatsii dlia klassifikatsii materialov izoliatsii elektricheskikh mashin i apparatov po nagrevostoikosti. Publikatsiia No.85. Izd.1, 1957 g. Moskva, Gos.energ.izd-vo, 1958. 12 p. (MIRA 12:7)

1. World Power Conference. U.S.S.R. National Committee. (Electric insulators and insulation)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

8(2) PHASE I BOOK EXPLOITATION SOV/1867

Tareyev, Boris Mikhaylovich, and David Mikhaylovich Kazarnovskiy

Ispytaniya elektroizolyatsionnykh materialov (Testing Electric Insulating Materials) Moscow, Gosenergoizdat, 1958. 208 p. 20,950 copies printed.

Ed.: V.I. Timokhina; Tech. Ed. G.I. Matveyev.

PURPOSE: This is a textbook for students in electrical engineering tekhnikums. It may be useful to students in power and electrical engineering vuzes and also for technicians in industrial plants and scientific-research institutes.

COVERAGE: The authors describe the most important and widespread methods of testing electric insulating materials. They explain the theoretical basis of the various methods and describe a number of testing instruments and auxiliary equipment. Special attention is devoted to new methods of testing with automatic measuring instruments and apparatus and methods for continuous testing without interrupting production or operating conditions. There are 70 references, 53 of which are Soviet, 10 English, 4 German, 2 Czech and 1 Italian.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

PHASE I BOOK EXPLOITATION 1079

Tareyev, Boris Mikhaylovich

Elektrotekhnicheskiye materialy (Electrical Materials) 6th ed., rev. Moscow, Gosenergoizdat, 1958. 271 p. 51,000 copies printed.

Ed.: Timokhina, V.I.; Tech. Ed.: Larionov, G.Ye.

PURPOSE: This book was approved as a textbook by the Scientific Council for Professional and Technical Education of the Main Administration of Labor Reserves under the USSR Council of Ministers, to be used in technical, trade, and railroad schools specializing in electrical engineering subjects. The book is also intended for technicians working in electric power systems, and plants and repair shops of the electrical and radio industries. It presumes a basic knowledge of physics, chemistry and electrical engineering.

COVERAGE: The book describes the properties, methods of testing, and behavior of the most important electrical materials (insulating materials, conductors, magnetic materials, cables, and various other materials.) No personalities are mentioned. There are 50 references, all Soviet.

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8(0) PHASE I BOOK EXPLOITATION SOV/2082

Elektroizolyatsionnyye materialy. ch 1: Svoystva materialov (Electrical Insulating Materials. Pt. 1: Properties of Materials) Moscow, Gosenergoizdat, 1958. 460 p. (Series: Spravochnik po elektrotekhnicheskim materialam, t. 1) 30,000 copies printed.

Eds. (Title page): Yu.V. Koritskiy and B.M. Tareyev; Ed. (Inside book): I.V. Antik; Tech. Ed.: A.M. Fridkin; Eds. of series: K.A. Andrianov, N.P. Bogoroditskiy, Yu.V. Koritskiy and B.M. Tareyev.

PURPOSE: This book is intended as a reference guide and textbook for engineers and technicians of electrical-engineering and radio-engineering industrial organizations and plants, of electric power stations and substations, electrical repair workshops, laboratories and scientific research institutes.

COVERAGE: The publication "Reference Guide on Electrical Engineering Materials" consists of 2 volumes. The 1st volume "Electrical Insulating Materials" consists of 2 parts. This is the 1st part

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and deals with the properties of insulating materials. The editors state that the book may serve as a systematically arranged and condensed source of technical data on most of the electrical insulating materials, their characteristics, standard specifications, production and machining processes, quality testing methods, and their applications in electrical and radio engineering. It also describes electrical insulating products: capacitor insulation, cable insulation, insulators, insulating materials for electrical machines, transformers, apparatus, radio equipment, and electrothermal apparatus. The book complies with recommendations of the Vsesoyuznoye byuro elektricheskoy izolatsii (All-Union Bureau of Electrical Insulating Materials) of MONITOE (VNITOE), issued in 1948. Each chapter is written by specialists and their names are listed in the Table of Contents. References are alloted separately to each chapter.

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PART I. PROPERTIES OF MATERIALS

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

Electrical Insulating Materials (Cont.) SOV/2082

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

AUTHORS: Mikhaylov, M. M., Kostenko, M. P., SOV/105-58-7-28/32
Neyman, L. R., Tareyev, B. M., Privezentsev, V. A., Zaytsev, I. A., Shramkov, Ye. G., Koritskiy, Yu. V.

TITLE: Professor V.T.Renne (Professor V.T. Renne) To His 50th Birthday (K 50-letiyu so dnya rozhdeniya)

PERIODICAL: Elektrichestvo, 1958, Nr 7, pp. 92 - 92 (USSR)

ABSTRACT: Vladimir Tikhonovich Renne was born on July 1st, 1908, in Kaluga. He graduated in 1930 from the Leningrad Polytechnical Institute and obtained the certificate of electrical engineer. Still a student, in 1928 he entered the telephone works "Krasnaya Zarya" and specialized in the field of electric technology. He organized a series of laboratories and directed them during several years. He worked out 15 types of paper-and mica condensers, thus industry being made independent of imports from abroad. He developed a series of cuprous oxide rectifiers for telephone equipment. He holds 8 patents. Since 1930 he teaches at the Leningrad Institute of Electromechanics (Leningradskiy elektromekhanicheskiy institut) and then at the Leningrad Institute of Electrical Engineering (Leningradskiy elektrotekhnicheskiy institut). From 1935 onwards he works at the Leningrad Polytechnical Institute (Leningradskiy

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

politekhnicheskiy institut) department of electric insulation and cable engineering, where he has a full-time job since 1939. He organized a laboratory for electric technology and electric condensers and published several manuals. In 1938 - Docent, in 1939 - Candidate of Technical Sciences, in 1951 - Doctor of Technical Sciences, in 1952 - Professor. He published more then 140 papers on electric insulation, electric technology, and condenser design. He maintains close relations with industry and scientific research institutes. He advises them and carries out scientific work together with them. For a number of years he was secretary in the Section of Electric Insulation at the VNITOE and is at present Member of the Bureau of Electric Insulation at the Ts-ENTOEP. He is the scientific head of the Scientific Society of Students at the Faculty of Electromechanics of the Leningrad Polytechnical Institute (LPI). There is 1 photograph.

1. Electrical engineering--USSR

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TARKYEV, B.M., prof., red.; OZERSKIY, V.A., red.; VORONIN, K.P., tekhn.red.

[Effect of radiation on electric insulating materials] Vozdeistvie radioaktivnykh izluchenii na elektroizoliatsionnye materialy. Moskva, Gos.energ.izd-vo, 1959. 87 p. (MIRA 12:5)
(Electric insulators and insulation) (Radioactivity)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M.

15(6) PHASE I BOOK EXPLOITATION SOV/2903

Elektroizolyatsionnyye materialy. Ch. 2: Metody ispytaniya i primeneniya materialov (Electrical Insulating Materials. Pt. 2: Methods of Testing and of Application of the Materials) Moscow, Gosenergoizdat, 1959. 476 p. (Series: Spravochnik po elektrotekhnicheskim materialam, t. 2) Errata slip inserted. 30,000 copies printed.

Eds. (Title page): Yu.V. Koritskiy and B.M. Tareyev; Ed. (Inside book): I.V. Antik; Tech. Ed.: A.M. Fridkin; Editorial Board of Series: K.A. Andrianov, N.P. Bogoroditskiy, Yu.V. Koritskiy, and B.M. Tareyev.

PURPOSE: The book is intended for technical personnel of the electrical and radio industries, electric power stations and substations, electric maintenance and repair shops, laboratories and scientific research institutes.

COVERAGE: This is the second part of Volume I of "Electrical Engineering Materials" and contains, in concise and systematic form, data on various types of the most commonly used electrical insulating materials and their properties, standards, methods of processing, applicability in electrical and radio engineering, and methods of testing. The following types of insulation are also described: capacitor insulation, cable insulation, insulators and insulation for electrical machines, transformers, radio equipment and electrothermal devices. References

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follow some chapters.

TABLE OF CONTENTS:

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SOV/143-59-5-5/19

9(3)
AUTHORS: Tareyev, B.M., Doctor of Technical Sciences, Professor, and Lerner, M.M., Engineer

TITLE: An Investigation of the Forming Process of Aluminum Foils for Electrolytic Capacitors by Three-Phase Power Frequency Current

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Energetika, 1959, Nr 5, pp 36-45 (USSR)

ABSTRACT: Studying the process of static forming of anode aluminum foils by three-phase alternating current will result in a more complete evaluation of the advantages of this method, which eventually will find industrial application. In this paper, the authors consider the connection between capacitance of the foil sample to be formed and the linear forming voltage and also the direct voltage component in the tanks. Figure 1 shows the connection of 3 tanks for three-phase static forming of foils. The authors discuss the time required for forming the foils, the final forming currents and the speed of oxide layer formation. They

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An Investigation of the Forming Process of Aluminum Foils for Electrolytic Capacitors by Three-Phase Power Frequency Current

compare the quantity of power required for different forming methods. The forming of aluminum foils was performed in tanks with stainless steel electrodes (steel 1Kh18N9T). The electrolyte consisted of boric acid (100 gr/liter) and borax (0.5 gr/liter), and had a temperature of 80°C. As a rule, 60 min were required for the forming process. Samples of 0.08 mm thick aluminum foils, 3x5 cm, having a purity of 99.95%, were subjected to forming. The data in Table 1 show that the final currents hardly depend on the forming voltage with three-phase forming; on the average they amount to 1.22 milliamp/cm^2. Experimental data confirmed that the final current density does not depend on the voltage. With three-phase forming the oxide layer is formed faster than with two-phase forming. If the foil formation is performed on direct current with the voltage $U_{=}$ and by three-phase alternating current with the voltage $U_{\sim}$, with the aforementioned electrolyte composition, then an

An Investigation of the Forming Process of Aluminum Foils for Electrolytic Capacitors by Three-Phase Power Frequency Current

identical capacitance of the foil may be obtained under the condition $U_{\sim} = U_{=}$. The direct voltage component U_0, during forming under these consitions, is equal to half the effective value of the linear voltage. In the ultimate case, when the resistance of the electrolyte is equal to zero, and if the valve effect of the oxide layer is ideal, U_0 is equal to the amplitude of the phase voltage. There are 2 diagrams, 9 graphs, 1 table and 3 Soviet references. This article was presented by the Kafedra elektroizolyatsionnoy i kabel'noy tekhniki (The Chair of Electrical Insulation and Cable Engineering).

ASSOCIATION: Vsesoyuznyy zaochnyy energeticheskiy institut (All-Union Correspondence Institute of Power Engineering)

SUBMITTED: December 28, 1958

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

8 (3)

AUTHORS: Tareyev, B. M., Doctor of Technical Sciences, Professor, Lerner, M. M., Engineer SOV/105-59-6-16/28

TITLE: Continuous Alternating Current Oxidation of the Anode Foil of Electrolytic Condensers (Nepreryvnoye oksidirovaniye peremennym tokom anodnoy fol'gi dlya elektroliticheskikh kondensatorov)

PERIODICAL: Elektrichestvo, 1959, Nr 6, pp 71 - 76 (USSR)

ABSTRACT: This is an investigation of the continuous-band-motion oxidation of anode foil bands with single-, two-, and three-phase a.c. A counterconnection of the baths appears to be most convenient. The utilization of troughs of conventional construction for a.c. oxidation is possible only if the troughs are made of oxidation-resistant material, (as, for example, stainless steel 1Kh18N9T). The highest operational stability during oxidation is achieved if one foil is pulled through counterconnected baths (as shown in figure 3b). With respect to an equal load distribution on the transformers a three-phase oxidation is very interesting. It gives, similar as a two-phase oxidation, an oxide layer of high quality. The oxidation of anode foils by continuous band motion by means of a.c. and counterconnected baths avoids the rectification of the a.c.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

Continuous Alternating Current Oxidation of the Anode Foil of Electrolytic Condensers

SOV/105-59-6-16/28

and hence the energy losses connected with such a transformation. No short-circuits will occur, if the foil breaks, the cos φ of the installation increases and the output also increases owing to the elimination of polarization at the electrodes. There are 7 figures, 1 table, and 7 Soviet references.

ASSOCIATION: Vsesoyuznyy zaochnyy energeticheskiy institut (All-Union Correspondence Institute of Power Engineering)

SUBMITTED: December 25, 1958

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., prof., doktor tekhn.nauk, otv.red.vypuska

[Dielectrics] Dielektriki. Moskva, 1960. 21 p. (Sborniki rekomenduemykh terminov, no.53). (MIRA 13:3)

1. Akademiya nauk SSSR. Komitet tekhnicheskoy terminologii.
(Dielectrics--Dictionaries)
(Russian language--Dictionaries--Polyglot)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

ANDRIANOV, K.A., red.; BOGORODITSKIY, N.P., red.; KORITSKIY, Yu.V., red.; PASYNKOV, V.V., red.; TARZIEV, B.M., red.; SOBOLEVA, Ye.M., tekhn.red.

[Handbook on electric engineering materials; in two volumes] Spravochnik po elektrotekhnicheskim materialam v dvukh tomakh. Moskva, Gos.energ.izd-vo. Vol.2. [Magnetic, conducting, semiconductor and other materials] Magnitnye, provodnikovye, poluprovodnikovye i drugie materialy. Pod red. N.P.Bogoroditskogo i V.V.Pasynkova. 1960. 511 p. (MIRA 14:1)
(Electric engineering--Materials)

AUTHORS: Aleksandrov, N. V., Larionov, A. N., Bragin, S. M., Grodnev, I. I., Drozdov, M. G., Yerofeyev, B. M., Kosmo, V. T., Mayofis, I. M., Troitskiy, I. D., Labystina, G. F., Sidorov, K. V., and Others

TITLE: Professor V. A. Privezentsev. On His 60th Birthday and the 35th Anniversary of His Scientific-pedagogical and Engineering Activity

PERIODICAL: Elektrichestvo, 1960, No. 7, p. 94

TEXT: This is a brief biography of Vladimir Alekseyevich Privezentsev, born at the village of Kolodkino, Moscow oblast', on June 10, 1900. In 1924 he finished his studies at the Elektrotekhnicheskiy fakul'tet MVTU (Department of Electrical Engineering of the MVTU), later on at the Moskovskiy promyshlenno-ekonomicheskiy institut (Moscow Institute of Industry and Economy), and the Vysshiye pedagogicheskiye kursy pri MVTU (Higher Pedagogical Course at the MVTU). In 1938, he dissertated for the degree of Candidate, became a Docent in 1939, and a Professor in 1946.

Professor V. A. Privezentsev. On His 60th Birthday and the 35th Anniversary of His Scientific-pedagogical and Engineering Activity S/105/60/000/07/25/027 B007/B005

He dissertated in 1951, and obtained the degree of Doctor of Technical Sciences in 1952. From June 1923, he worked for 20 years at the saved "Moskabel'" ("Moskabel'" Works) where he was a chief engineer between 1941 and 1945. From 1945 he worked as a chief engineer at the Tsentral'naya kabel'naya laboratoriya NKP (Central Cable Laboratory NKP) and as a deputy director for the scientific section of the Nauchno-issledovatel'skiy institut kabel'noy promyshlennosti (Scientific Research Institute of the Cable Industry). From 1949 on, he has been working as a department chief at the NIIKP. He cooperated in the rationalization of power cable constructions for 1-10 kv, conducted the production of automobile cables, and cables with glass wool-, caprone-, and enamel insulation. For 25 years he has been working at the MEI. At the NIIKP, he is supervising the work of post-graduate students. He wrote many books, handbooks on cable engineering, and more than 100 articles. For 15 years, he was the responsible editor of the scientific-technical periodical of cable engineering (edition of the "Moskabel'" Works and the TsKL), conducted for 15 years the kabel'naya sektsiya Nauchno-

Professor V. A. Privezentsev. On His 60th Birthday and the 35th Anniversary of His Scientific-pedagogical and Engineering Activity S/105/60/000/07/25/027 B007/B005

tekhnicheskogo soveta Ministerstva elektrotekhnicheskoy promyshlennosti (Cable Section of the Scientific and Technical Council at the Ministry of the Electrotechnical Industry), and was a member of the Presidium Vsesoyuznogo byuro po elektricheskoy izolyatsii (Presidium of the All-Union Bureau of Electric Insulation) for more than 15 years; later on, he cooperated in the work of the komissiya po dielektrikam i po terminologii pri AN SSSR (Commission on Dielectrics and Terminology at the AS USSR). There is 1 figure.

Card 3/3

TARLEV B.M.

TAREYEV, B.M., doktor tekhn.nauk, prof.; LERNER, M.N., kand.tekhn.nauk

Concerning the replacement of copper with aluminum in the electric industry. Elektrichestvo no.10:78-82 O '60. (MIRA 14:9)
(Electric engineering--Materials)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

CHILIKIN, M.G.; LARIONOV, A.N.; ANDRIANOV, K.A.; MESHKOV, V.V.; IONKIN, P.A.; ARKHIPOV, V.N.; PETROV, G.N.; BRAGIN, S.M.; PRIVEZENTSEV, V.A.; TAREYEV, B.M.

Professor N.G. Drozdov. Elektrichestvo no.10:90 O '60. (MIRA 14:9)

(Drozdov, Nikolai Gavrilovich, 1900-)

B/105/60/000/011/008/008
B012/B058

AUTHORS: Vladimirskiy, A. P., Dikushin, V. I., Petrov, I. I., Shinkov, N. A., Taroyev, B. K., Chilikin, M. G., and Others

TITLE: V. G. Zuzman, on the Occasion of His 50th Birthday and the 25th Anniversary of His Engineering, Scientific, and Pedagogical Activities

PERIODICAL: Elektrichestvo, 1960, No. 11, p. 94

TEXT: For 20 years Vladimir Grigor'yevich Zuzman has directed the elektrotekhnicheskiy otdel Eksperimental'nogo nauchno-issledovatel'skogo instituta metallorezhushchikh stankov (ENIMS) (Department of Electrical Engineering at the Experimental Scientific Research Institute of Metal-cutting Machine Tools) which plays an important role in laying down the technological rules for the electrical equipment of machine tools and other machinery. He is the author of more than 45 published papers and inventions in the field of electric drive and automatic control systems. He has delivered a great number of lectures at All-Union Technical Conferences. His main studies deal with controllable electric drives involving electronic, dynamoelectric, magnetic, and semiconductor amplifiers, as well as electromagnetic clutches of various types and improvements of low-voltage apparatus. His studies on theory and practice of comprehensive automation in machine building are noteworthy. In recent years, his team developed a series of new systems for the numerical control of machine tools, extensively using electronic means, and the calculation technique. V. G. Zuzman's pedagogical activity dates back to 1936, and at present he is teaching at the Vsesoyuznyy zaochnyy energeticheskiy institut (All-Union Correspondence Institute of Power Engineering). There is 1 figure.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

84600
S/181/60/002/010/023/051
B019/B056

9,2110 (1043, 1081, 1145)

AUTHORS: Tareyev, B. M. and Lerner, M. M.

TITLE: The Theory of Unilateral Conductivity of an Oxide Film on Aluminum

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2487-2492

TEXT: The present theory of unilateral conductivity of oxide films on aluminum describes satisfactorily the behavior of an oxidized sample immersed in an electrolyte. If, however, the sample is taken out of the electrolyte, this theory fails in the description of a number of its properties. This theory is especially not developed for electrolytic capacitors with solid electrolytes. The authors suggest a hypothesis that holds good for oxide films which are formed in weak electrolytes, if the former has a positive potential. In this hypothesis it is assumed that a p-n- junction exists, which is destroyed with the formation of an n-type semiconductor: 1) by removing the voltage from the sample, 2) by taking the sample out of the electrolyte, 3) by applying a negative

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The Theory of Unilateral Conductivity of an Oxide Film on Aluminum

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B019/B056

potential to the sample relative to the electrolyte (in this case the defects are in the oxide film). On the basis of this hypothesis suggested by the authors, it is possible to explain the behavior of oxidized Al-samples in the following cases: 1) The voltage is removed from a sample dipped into an electrolyte. 2) A negative potential is applied to the sample relative to the electrolyte. 3) The sample taken out of the electrolyte is subjected to the action of various media and temperatures. 4) Onto the sample taken out of the electrolyte, a layer of p-type semiconductor or of metal is applied. There are 24 references: 3 Soviet, 11 US, 3 Dutch, 5 German, 1 Swiss, and 1 French.

SUBMITTED: August 29, 1959

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

BOGORODITSKIY, Nikolay Petrovich; PASYNKOV, Vladimir Vasil'yevich; TAREYEV, Boris Mikhaylovich; RENNE, V.T., doktor tekhn.nauk, prof., red.; ZHITNIKOVA, O.S., tekhn.red.

[Electric engineering materials] Elektrotekhnicheskie materialy. Izd.4., perer. Moskva, Gos.energ.izd-vo, 1961. 528 p. (MIRA 14:6)

1. Zaveduyushchiy kafedroy elektroizolyatsionnoy i kabel'noy tekhniki Leningradskogo politekhnicheskogo instituta im. M.I.Kalinina (for Renne).
(Electric engineering--Materials)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., laureat Stalinskoy premii, doktor tekhn. nauk, prof.; MAGIDSON, O.A., red.

[Fundamentals of the physics of dielectrics; lectures] Osnovy fiziki dielektrikov; lektsii. Moskva, Vses.zaochnyi energ. in-t. No.1.[Electrical conductivity of dielectrics] Elektroprovodnost' dielektrikov. Izd.4., perer. 1961. 46 p. (MIRA 15:7)
(Dielectrics)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., prof., red.; BULGAKOV, V.A., red.; LARIONOV, G.Ye., tekhn. red.

[Electric insulating materials with increased heat resistance] Elektroizoliatsionnye materialy povyshennoi nagrevostoikosti; sbornik perevodov statei. Moskva, Gosenergoizdat, 1961. 103 p. (MIRA 16:5)
Translated from the English.
(Electric insulators and insulation)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

MIKHAYLOV, A.I., prof.; TAREYEV, B.M., prof.

[Scientific information in the field of electric and power engineering] Nauchnaia informatsiia v oblasti elektrotekhniki i energetiki; lektsiia. Moskva, Vses. zaochnyi energ. in-t, 1961. 17 p. (MIRA 16:12)

1. Direktor Vsesoyuznogo instituta nauchnoy i tekhnicheskoy informatsii (for Mikhaylov). 2. Zaveduyushchiy kafedroy elektroizolyatsionnoy i kabel'noy tekhniki Vsesoyuznogo zaochnogo energeticheskogo instituta (for Tareyev).
(Power engineering--Information services)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

BRAGIN, S.M.; BUTAKOV, I.N.; KRASIN, A.K.; SOKOLOV, A.A.; STEKOL'NIKOV, I.S.; TAREYEV, B.M.; FIALKO, Ye.I.; CHILIKIN, M.G.

Fiftieth anniversary of the birth of Professor A.A.Vorob'ev. Elektrichestvo no.1:93 Ja '61. (MIRA 14:4)
(Vorob'ev, Aleksandr Akimovich)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., doktor tekhn.nauk, prof.; LERNER, M.M., kand.tekhn.nauk

Trends in the development of aluminum electrolytic capacitors abroad. Elektrichestvo no.5:81-84 My '61. (MIRA 14:9)
(Electric capacitors)

37748

S/196/62/000/009/009/018
E114/E184

9.2110

AUTHORS: Lerner, M.M., and Tareyev, B.M.

TITLE: Single phase formation of anodic foil for capacitors using alternating current

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.9, 1962, 6, abstract 9 B28. (Tr. vses. zaoch. energ. in-ta, no.18, 1961, 77-91)

TEXT: Static formation of foil in a single bath directly connected to an a.c. power supply was considered. Two cases were analyzed: 1) when the impedance of the foil $|\bar{Z}_ф|$ exceeds that of the bath $|\bar{Z}_B|$; and 2) when $|\bar{Z}_ф|$ is of the same order of magnitude as, or much less than, $|\bar{Z}_B|$. Case 1 is possible if the bath is made of a material which is not affected by a.c. (for instance stainless steel). In this case, a large (reverse) current flows in the conducting direction of the oxide skin which is being formed, and more energy is required than when forming with d.c., or by other a.c. methods, and this, to some extent, impairs the quality of the oxide film because it is intensively

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Single phase formation of anodic ...

heated during the conducting half cycles. At the same time, the voltage utilization factor K, which is the ratio of the voltage across the oxide film to the total voltage applied to the bath, is high - the whole voltage of the source of power is applied across the oxide film with the exception of voltage drop in the electrolyte. Case 2 is possible if the bath is made of a material susceptible to a.c. (for instance aluminium), and the surface area of the bath is about equal to the area of the foil (or is a little less). In case 2, the reverse currents flowing through the foil are much less than in case 1 because $|Z_B| \geq |Z_\Phi|$. This reduces the a.c. power consumption and the oxide film is of better quality because heating is less. In case 2, K is much lower, particularly when $|Z_B| > |Z_\uparrow|$. Curves are given of capacitance and current as function of the time of a.c. or d.c. forming for case 1. The oxide film formation time counted from the moment when the current and the capacity cease to fall is about 15-20 mms for both a.c. and d.c. With a.c. the time of passage of ionic currents forming the oxide film is much less than the time of application of voltage,

while with d.c. both intervals are the same. With a.c. and a single bath, the oxide layer forms only during that part of the half cycle during which the current passes through the foil in the non-conducting direction for the oxide layer. The ionic current begins to pass through the oxide layer at an instant when the applied e.m.f. is greater than the back e.m.f. in the oxide film, which is proportional to its thickness. The authors call the time of passage of the ionic current Δt, 'the absolute time of formation'. Inasmuch as Δt is a function of time of the a.c. forming period, full absolute time τ during all the periods can be calculated from the formula:

$$\tau = \overline{\Delta t} \cdot \frac{t_{form}}{T}, \text{ where}$$

$$\overline{\Delta t} = \frac{1}{t_{form}} \int_0^{t_{form}} \Delta t \, dt$$ is the time of formation of the oxide layer, T - full period of the forming voltage.

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If, to a first approximation, it is considered that the time function is linear

$$\Delta t = \frac{T}{2}\left(1 - \frac{t}{t_{form}}\right)$$

then τ = 5 minutes for a.c. conditions compared with 20 minutes for d.c. Therefore, whilst a.c. is flowing the instantaneous density of ionic current should be somewhat greater than with d.c. Comparative curves are given plotting reverse capacitance against voltage for d.c. and a.c. In the range up to 160 volts the specimens are of the same capacitance if the effective voltage with a.c. is three quarters of the d.c. voltage (the forming takes place in aqueous solution 100 g/litre boric acid and 0.5 g/litre borax at a temperature of 80 °C.). In the second case, film formation was studied with various ratios of foil to bath surface area. It is shown that, as the bath area is reduced, the consumption of electric current decreases. The problem of comparing a.c. and d.c. processes is discussed. A.c. and d.c. can both be conducted in three ways: firstly, at

a constant current density; secondly, at constant voltage; and thirdly, mixed. However, not all these ways are suitable for comparing a.c. and d.c. processes. In the first way comparison is difficult because with a.c. not all of the current is used for the formation of the oxide layer. It has a considerable capacitative component, and the reverse current does not form the oxide at all. It is impracticable to utilize the third (mixed) way for comparison because it partially includes the first way. The most convenient is the second way - comparison at constant forming voltage. The choice of the equivalent voltages for a.c. and d.c. can be made from the requirements of creating the same capacitance of oxide layer - its most stable and simply measured characteristic. In this case, other conditions being equal, the a.c. voltage U is considered equivalent to a d.c. voltage U, if the capacitance of the samples being compared after formation is the same. 2 references.

Abstractor's remarks. The detailed analysis of the a.c. method shows that an aluminium bath whose surface is much greater than

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that of the foil cannot be included in case 1 to the same extent as the a.c. method with a stainless steel bath. Although with an aluminium bath of extensive surface $|\bar{Z}_B| \ll |\bar{Z}_\Phi|$ there is no sharp increase in the reverse current with a.c. under these conditions because both the bath and the foil have rectifying properties. Thus, the bath and the foil being formed in it comprise a system of two opposing electrolytic valves. The a.c. case with one aluminium bath of extensive surface was further investigated by the authors and practical confirmation was obtained of the possibility of the dynamic forming of an oxide layer using a.c. in industrial conditions in one bath, and in such conditions the oxide layer is of relatively high quality.

[Abstractor's note: Complete translation.]

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

PRIVEZENTSEV, Vladimir Alekseyevich; MAGIDSON, Abram Osipovich; TAREYEV, B.M., prof., doktor tekhn. nauk; YEMZHIN, V.V., tekhn. red.

[Artificial and synthetic fibers and films for electrical insulation]Iskusstvennye i sinteticheskie volokna i plenki dlia elektricheskoi izoliatsii. Moskva, Gosenergoizdat, 1962. 111 p. (Polimery v elektroizoliatsionnoi tekhnike, no.3) (MIRA 15:10)

(Electric insulators and insulation)
(Textile fibers, Synthetic)

RENNE, V.T., doktor tekhn. nauk, prof.; TAREYEV, B.M., doktor tekhn.nauk, prof., red.

[Study of the relationship between the properties of condenser paper and the quality of paper condensers; manual for the course in "Technology and electric insulation"] Issledovanie sviazi mezhdu svoistvami kondensatornoi bumagi i kachestvom bumazhnykh kondensatorov; uchebnoe posobie po kursu "Tekhnologiia elektricheskoi izoliatsii." Moskva, 1962. 29 p. (MIRA 17:5)

1. Moscow. Vsesoyuznyy zaochnyy energeticheskiy institut. Kafedra elektroizolyatsionnoy i kabel'noy tekhniki.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

GAYLISH, Ye.A.; DROZDOV, N.G.; YEVSTROP'YEV, K.S.; KAZARNOVSKIY, D.M.; NEYMAN, L.R.; PASYNKOV, V.V.; PRIVEZENTSEV, V.A.; REMME, V.T.; TAREYEV, B.M.

N.P. Bogoroditskii; on his sixtieth birthday and the thirty-fifth anniversary of his theoretical and educational work. Elektrichestvo no.7:87-88 Jl '62. (MIRA 15:7)
(Bogoroditskii, Nikolai Petrovich, 1902-)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., doktor tekhn.nauk, prof.; LERNER, M.M., kand.tekhn.nauk

Concerning L.L.Odynets' article "Efficiency of using a.c. for shaping plate foil in the manufacture of electrolytic condensers. Izv. vys. ucheb. zav.; energ. 5 no.2:112-113 F '62.
(MIRA 15:3)

(Condensers (Electricity))

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TAREJEV, B.M., dr tehn. nauka [Tareyev, B.M.] (U.S.S.R.); LERNER, M.M., kand. tehn. nauka (U.S.S.R.); ILOVAJSKI, Pavle, inz. [translator]

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

GRUBNIK, N.N.; TAREYEV, B.M., doktor tekhn. nauk, prof., red.

[Enamelled wires; a lecture] Emalirovannye provoda; lektsiia. Moskva, Vsesoiuznyi zaochnyi energ. in-t, 1963. 53 p. (MIRA 17:3)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

SHVEDOVA, L.A.; TAREYEV, B.M., doktor tekhn. nauk, prof., red.

[Lectures on the course "Calculation and construction of electrical insulation"] Lektsii po kursu "Raschet i konstruirovanie elektricheskoi izoliatsii" Moskva, Vses. zaochnyi energeticheskii in-t. No.1. [Design of oil-filled entrances] Raschet maslonapolnennykh vvodov. 1963. 38 p.
(MIRA 17:4)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

KAZARNOVSKIY, David Mikhaylovich; TAREYEV, Boris Mikhaylovich; KUCHINSKIY, G.S., red.; SOBOLEVA, Ye.M., tekhn. red.

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B.M. Vul; on his 60th birthday and 35th anniversary of his scientific work. Elektrichestvo no.8:95 Ag '63. (MIRA 16:10)

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YAMANOVA, L.V.; TAREYEV, B.M., doktor tekhn. nauk, prof., red.

[Electric condensers; lectures] Elektricheskie kondensatory; lektsii. Moskva, Vses. zaochnyi energ. in-t. No.1 1964. 84 p. (MIRA 18:3)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, B.M., prof., laureat Stalinskoy premii, doktor tekhn. nauk

[Fundamentals of the physics of dielectrics; lectures] Osnovy fiziki dielektrikov; lektsii. Moskva, Vses. zaochnyi energ. in-t. No.1 - No.2. Izd.4., perer. 1962. 87 p.
(MIRA 17:9)

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LERNER, M.M., kand. tekhn. nauk, dots. MATSONASHVILI, B.N., kand. fiz.-matem. nauk; RENNE, V.T., doktor tekhn. nauk, prof.; TAREYEV, B.M., doktor tekhn. nauk, prof., red.

[Electric engineering materials: electric condensers, wires, and cables] Elektrotekhnicheskie materialy, elektricheskie kondensatory, provoda i kabeli 1962-1963. Moskva, 1964. 158 p. (MIRA 18:2)

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[French-Russian electrical engineering dictionary] Frantsuzsko-russkii elektrotekhnicheskii slovar'. Pod red. N.S.Kurbatovoi i B.M.Tareeva. Moskva, Sovetskaia entsiklopediia, 1965. 720 p. (MIRA 18:12)

BOGORODITSKIY, Nikolay Petrovich; VOLOKOBINSKIY, Yuriy Mikhaylovich; VOROB'YEV, Aleksandr Akimovich; TAREYEV, Boris Mikhaylovich; RENNE, V.T., retsenzent; VODOP'YANOV, K.K., retsenzent; KAZARNOVSKIY, D.M., nauchn. red.; PAVLOVA, L.S., red.

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BESSONOV, L.A.; BABAKOV, N.A., prof., retsenzent; KOLOBKOV, D.S., prof., retsenzent; TAREYEV, B.M., prof., doktor tekhn. nauk retsenzent

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APROSINA, Z.G., kand. med. nauk; AFANAS'YEVA, K.A., kand. med. nauk; AKHREM-AKHREMOVICH, R.M., prof.; BLYUGER, A.F., doktor med. nauk; BONDAR', Z.A., prof.; VASILENKO, V.Kh., prof.; KIKODZE, I.A., kand. med. nauk; LINDENBRATEN, L.D., prof.; LOGINOV, A.S., kand. med. nauk; MANSUROV, Kh.Kh., prof.; NAZARETYAN, Ye.L., kand. med. nauk; NOGALLER, A.M., prof.; PLOTNIKOV, N.N., prof.; SEMENDYAYEVA, M.Ye., kand. med. nauk; TAREYEV, Ye.M., prof.; TAREYEV, I.Ye., kand. med. nauk; TER-GRIGOROVA, Ye.N., prof.; CHERNYSHEVA, Ye.V., kand. med. nauk; SHVARTS, L.S., prof.; MYASNIKOV, A.L., prof., zam. otv. red.; BOGOSLAVSKIY, V.A., red.; SEMENDYAYEVA, M.Ye., red.

[Multivolume manual on internal diseases] Mnogotomnoe rukovodstvo po vnutrennim bolezniam. Moskva, Meditsina. Vol.5. 1965. 724 p. (MIRA 18:9)

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KONYUKHOV, I.A.; BROD, I.O., prof., red.; TARNYEV, I.N., ved.red.; MASOLOV, Ya.M., tekhn.red.

[Studying mesozoic deposits in eastern Ciscaucasia; oil and gas-producing prospects] Opyt izucheniia mezozoiskikh otlozhenii Vostochnogo Predkavkaz'ia; v sviazi s perspektivami neftegazonosnosti. Moskva, Gosinti, 1958. 125 p. (MIRA 12:3)
(Caucasus, Northern--Geology, Stratigraphic)

TARSYEV, V. M.

"Heat Engineering" 1951

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KUZOVLEV, V.A., inzhener-mekhanik; TAREYEV, V.M., doktor tekhnicheskikh nauk, professor, redaktor.

[Technical thermodynamics] Tekhnicheskaia termodinamika. Izd.3. Pod obshchei red. V.M.Tareeva. Moskva, Gos.izd-vo vodnogo transporta, 1953. 330 p. (MLRA 7:3)

(Thermodynamics)

MAKHAN'KO, M.G., kandidat tekhnicheskikh nauk; TARKOV, V.M., professor; TSELISHCHEV, P.A.; KHITROV, P.A., tekhnicheskiy redaktor.

Conversion of internal combustion engines to gaseous fuels. Trudy TSNII MPS no.74:3-96 '54. (MLRA 8:5)
(Gas and oil engines)

TAREYEV, V.M., professor.

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(Heat engineering) (Turbines)

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TAREYEV, V.M., professor.

Problem of the mechanical efficiency of the vanes of steam and gas turbines. Trudy MIIT no.82/83:237-242 '55. (MLRA 9:8)
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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, V.M., professor; DOGIN, M.Ye., dotsent; AGAPOV, V.M., inzhener.

Automatization of the diesel installations in railroad electric power stations. Trudy MIIT no.82/83:432-449 '55. (MLRA 9:8)
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(Automatic control)

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KUZOVLEV, Vitaliy Aleksandrovich; TAREYEV, V.M., professor, doktor tekhnicheskikh nauk, redaktor; SHLENNIKOVA, Z.V., redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Technical thermodynamics] Tekhnicheskaia termodinamika. Izd. 4-oe. Pod obshchei red. V.M.Tareeva. Moskva, Izd-vo "Rechnoi transport," 1956. 338 p. (MLRA 9:8)
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VRASHEV, Sergey Pavlovich, inzh.; LETNIK, Aleksandr L'vovich, dots.; SHIFRIN, Daniil Moiseyevich, inzh.; TAREYEV, V.M., prof., doktor tekhn. nauk, red.; SHERSTYUK, A.N., kand. tekhn. nauk, retsenzent.; KVITKOVSKIY, Yu.V., kand. tekhn. nauk, red.; MOLKL', B.I., tekhn. red.

[Machinery] Mashinovedenie. Izd. 2., dop. i perer. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 483 p. (MIRA 11:12)

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TAREYEV, Vladimir Mikhaylovich, prof., doktor tekhn.nauk; NIGMATULIN, I.N., doktor tekhn.nauk, retsenzent; SHLENNIKOVA, Z.V., red.izd-va; BOBROVA, V.A., tekhn.red.

[Reference book on thermal calculation of operating processes in internal combustion engines] Spravochnik po teplovomu raschetu rabochego protsessa dvigatelei vnutrennego sgoraniia. Moskva, Izd-vo "Rechnoi transport," 1959. 399 p. (MIRA 12:9)
(Gas and oil engines)

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11(1); 26(4) PHASE I BOOK EXPLOITATION SOV/3043

Tareyev, Vladimir Mikhaylovich, Doctor of Technical Sciences, Professor

Spravochnik po teplovomu raschetu rabochego protsessa dvigateley vnutrennego sgoraniya (Handbook on Thermal Calculations for Working Processes of Internal Combustion Engines) Moscow., Izd-vo "Rechnoy Transport", 1959. 403 p. Errata slip inserted. 8,500 copies printed.

Reviewer: I. N. Nigmatulin, Doctor of Technical Sciences; Ed. of Publishing House: Z. V. Shlennikova; Tech. Ed.: V. A. Bodrova.

PURPOSE: The book is intended for students of schools of higher technical education, aspirants, and technical personnel of research institutes and design bureaus.

COVERAGE: The book deals with basic calculations related to the thermal efficiency of internal combustion engines. The first part treats the theoretical principles underlying such calculations. It includes the theory, design, and operation of internal combustion engines. The principal efficiency standards and the values of respective coefficients are determined. The second part discusses ten main types of engines and demonstrates how

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efficiency coefficients are calculated. The engines discussed differ in purpose, type of fuel, number of strokes, degree of compression, type of scavenging and supercharging or its absence, and speed. Particular attention is paid to calculation methods developed by V. I. Grinevetskiy. The contributions of Professors N. R. Brilling, M. M. Maslennikov, and A. S. Orlin to the study of internal combustion engines are mentioned. There are 38 references, all Soviet.

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TAREYEV, V.M., prof.

Selecting indices of compression and expansion polytropes in the thermal analysis of internal-combustion engines. Trudy MIIT no.112:27-55 '59. (MIRA 13:2)
(Gas and oil engines)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010007-5"

TAREYEV, V.M., prof.

Abridged calculation of the exhaust process in two-cycle engines.
Trudy MIIT no.112:56-84 '59. (MIRA 13:2)
(Gas and oil engines)

KUZOVLEV, Vitaliy Aleksandrovich; TAREYEV, V.M., prof., doktor tekhn. nauk, red.; VOLCHOK, K.M., tekhn.red.

[Principles of heat engineering] Osnovy teplotekhniki. Pod red. V.M.Tareeva. Izd.2. Leningrad, Izd-vo "Rechnoi transport," Leningr.otd-nie, 1960. 199 p. (MIRA 13:11)
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TAREYEV, Vladimir Mikhaylovich, prof., doktor tekhn. nauk; GORBACHEV, A.V., red.; VOLCHOK, K.M., tekhn. red.

[Manual on the thermal analysis of the working process of internal combustion motors] Spravochnik po teplovomu raschetu rabochego protsessa dvigatelei vnutrennego sgoraniia. Izd.3., perer. Leningrad, Izd-vo "Rechnoi Transport" Leningr. otd-nie, 1961. 415 p. (MIRA 14:9)

(Gas and oil engines)